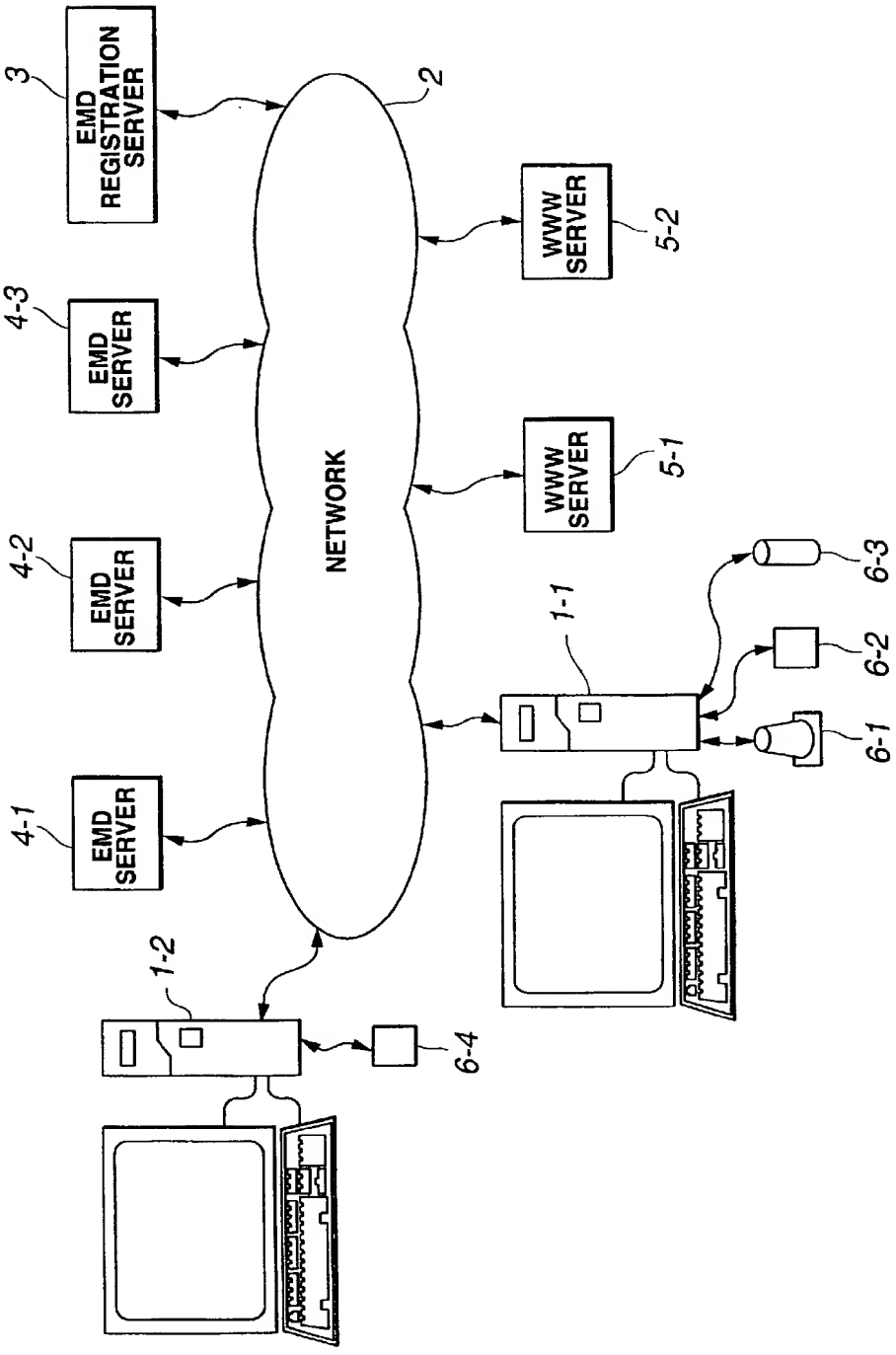
3
EMD REGISTRATION SERVER
2
NETWORK
WWW SERVER
5-2
WWW SERVER
5-1
4-3
EMD SERVER
4-2
EMD SERVER
4-1
EMD SERVER
1-1
1-2
6-1
6-2
6-3
6-4

FIG.1

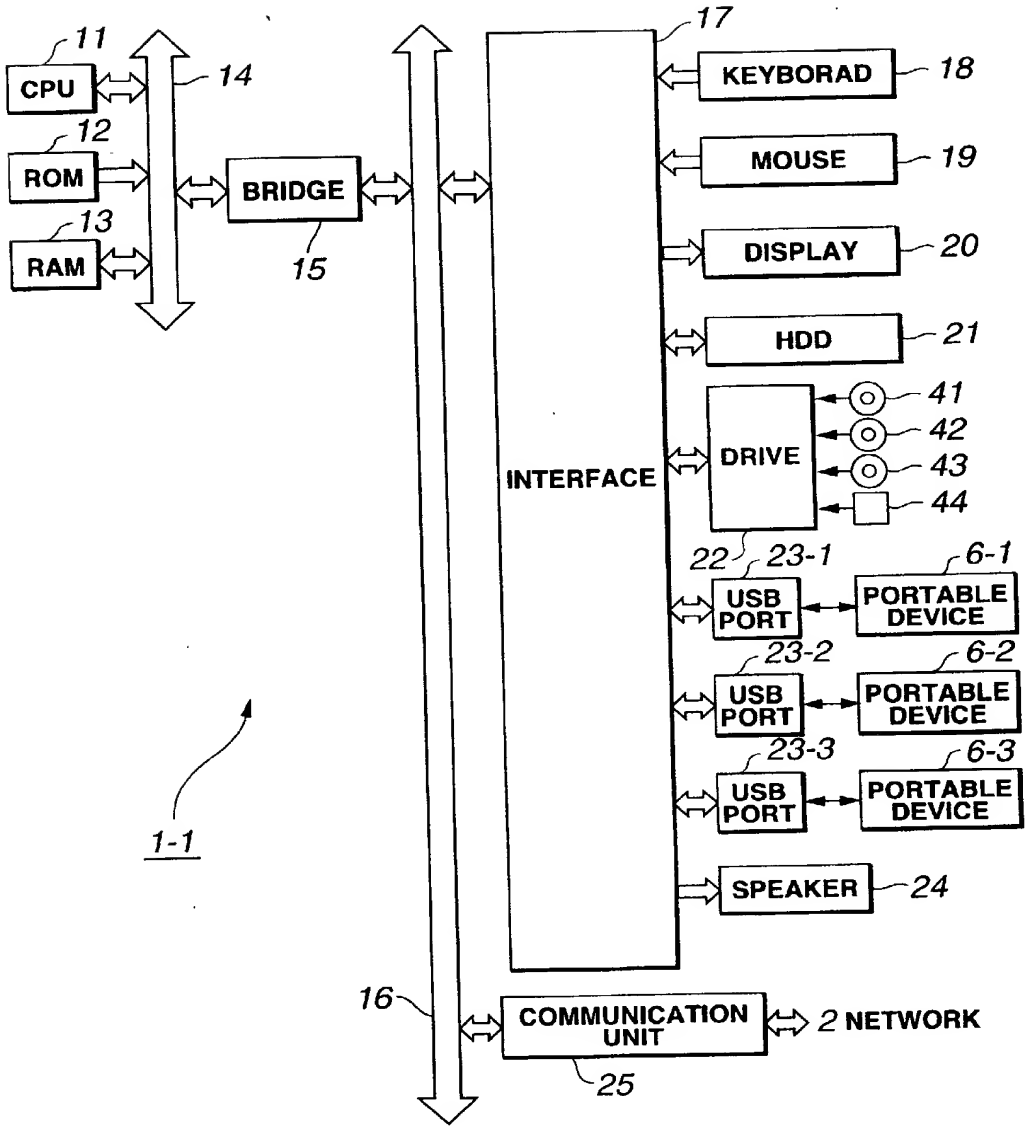
11
CPU
12
ROM
13
RAM
14
BRIDGE
15
16
17
INTERFACE
KEYBORAD
18
MOUSE
19
DISPLAY
20
HDD
21
DRIVE
41
42
43
44
22
23-1
USB PORT
6-1
PORTABLE DEVICE
23-2
USB PORT
6-2
PORTABLE DEVICE
23-3
USB PORT
6-3
PORTABLE DEVICE
SPEAKER
24
COMMUNICATION UNIT
25
2 NETWORK
1-1

FIG.2

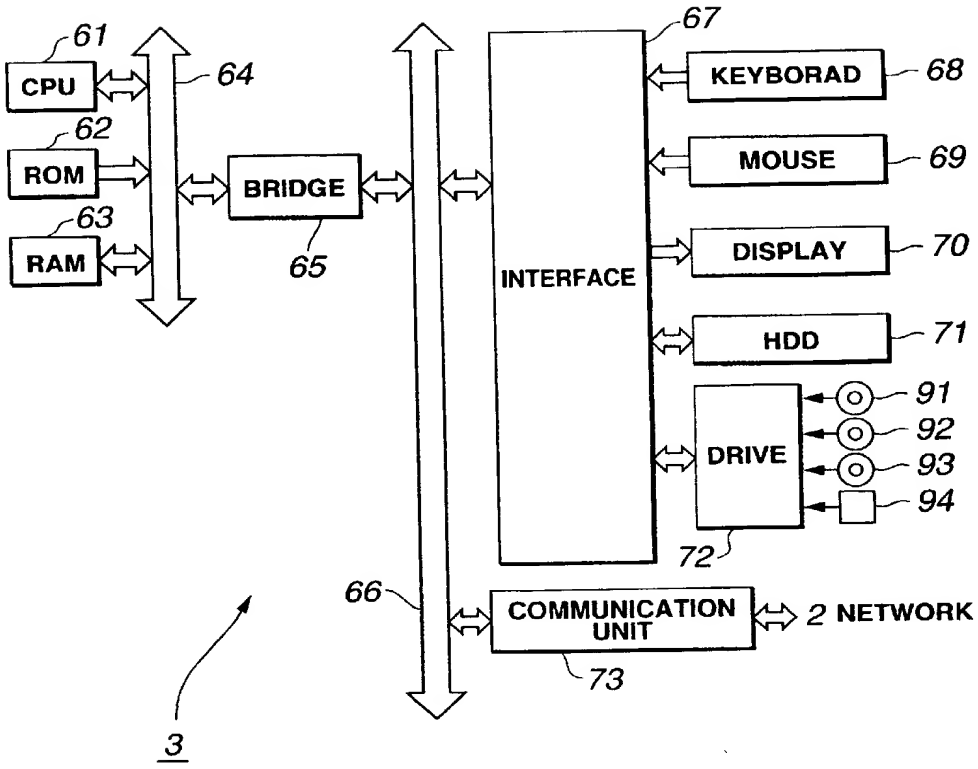
61
CPU
62
ROM
63
RAM
64
BRIDGE
65
67
INTERFACE
KEYBORAD
68
MOUSE
69
DISPLAY
70
HDD
71
DRIVE
91
92
93
94
72
66
COMMUNICATION UNIT
2 NETWORK
73
3

FIG.3

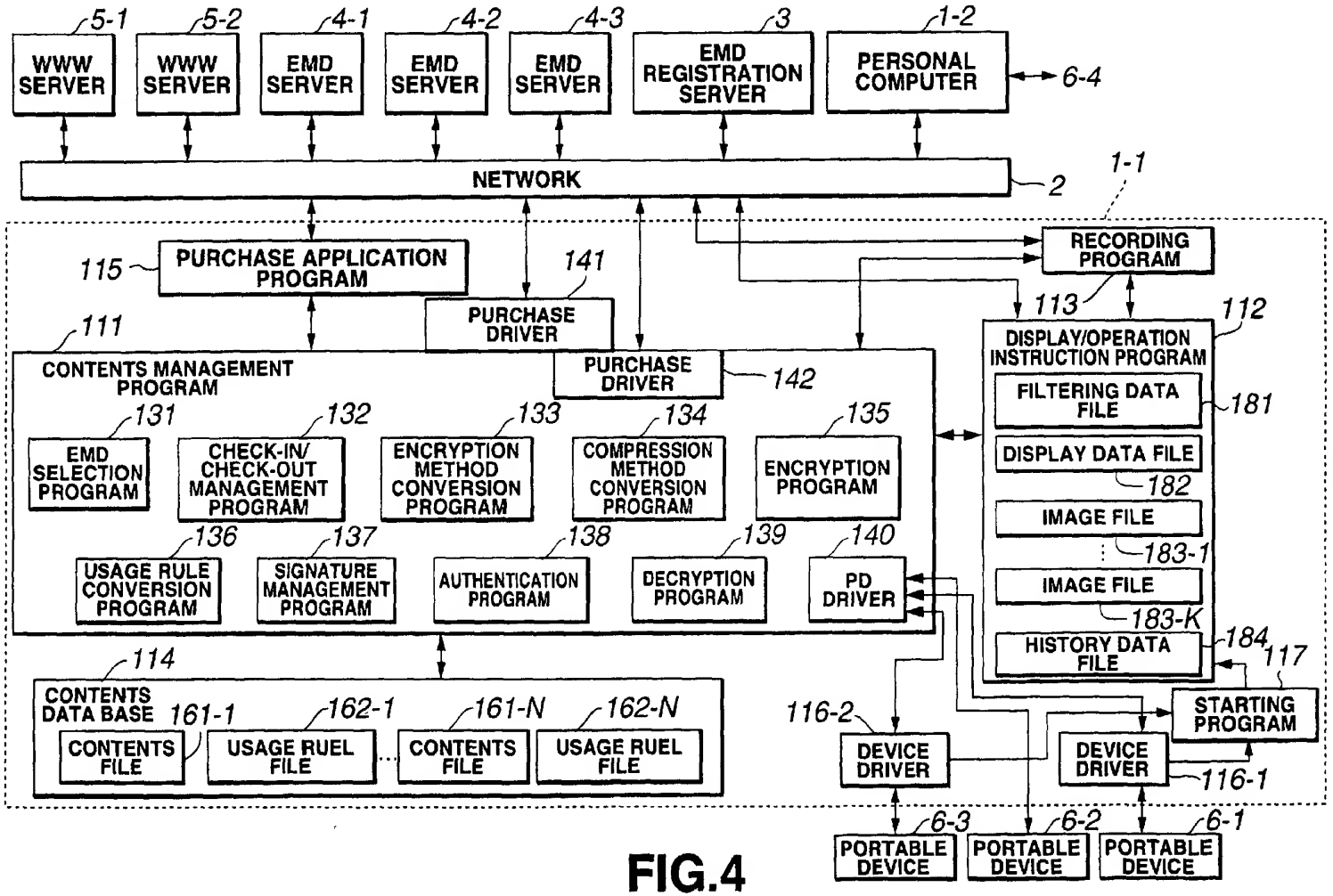
5-1
WWW SERVER
5-2
WWW SERVER
4-1
EMD SERVER
4-2
EMD SERVER
4-3
EMD SERVER
3
EMD REGISTRATION SERVER
1-2
PERSONAL COMPUTER
6-4
NETWORK
2
1-1
115
PURCHASE APPLICATION PROGRAM
141
PURCHASE DRIVER
111
CONTENTS MANAGEMENT PROGRAM
PURCHASE DRIVER
142
131
EMD SELECTION PROGRAM
132
CHECK-IN/ CHECK-OUT MANAGEMENT PROGRAM
133
ENCRYPTION METHOD CONVERSION PROGRAM
134
COMPRESSION METHOD CONVERSION PROGRAM
135
ENCRYPTION PROGRAM
136
USAGE RULE CONVERSION PROGRAM
137
SIGNATURE MANAGEMENT PROGRAM
138
AUTHENTICATION PROGRAM
139
DECRYPTION PROGRAM
140
PD DRIVER
114
CONTENTS DATA BASE
161-1
CONTENTS FILE
162-1
USAGE RUEL FILE
161-N
CONTENTS FILE
162-N
USAGE RUEL FILE
RECORDING PROGRAM
113
112
DISPLAY/OPERATION INSTRUCTION PROGRAM
FILTERING DATA FILE
181
DISPLAY DATA FILE
182
IMAGE FILE
183-1
IMAGE FILE
183-K
HISTORY DATA FILE
184
117
STARTING PROGRAM
116-2
DEVICE DRIVER
DEVICE DRIVER
116-1
6-3
PORTABLE DEVICE
6-2
PORTABLE DEVICE
6-1
PORTABLE DEVICE

FIG.4

09/913577 JC05 Rec'd PCT/PTO 27 SEP 2000

CONTENTS ID	CHECKOUT POSSIBLE ?	NUMBER OF MAXIMUM POSSIBLE CHECKOUTS	NUMBER OF POSSIBLE CHECKOUTS	MOVE POSSIBLE ?	COPY POSSIBLE ?	NUMBER OF POSSIBLE COPIES	USAGE PERIOD		CONTENT-USABLE DISTRICT	SIGNATURE
							START DATE	END DATE		
123XDES3	YES	3	3	NO	NO	—	99.11. 1	99.12. 3	JAPAN	XXYYSBYE

FIG.5

09/913577

09/913577

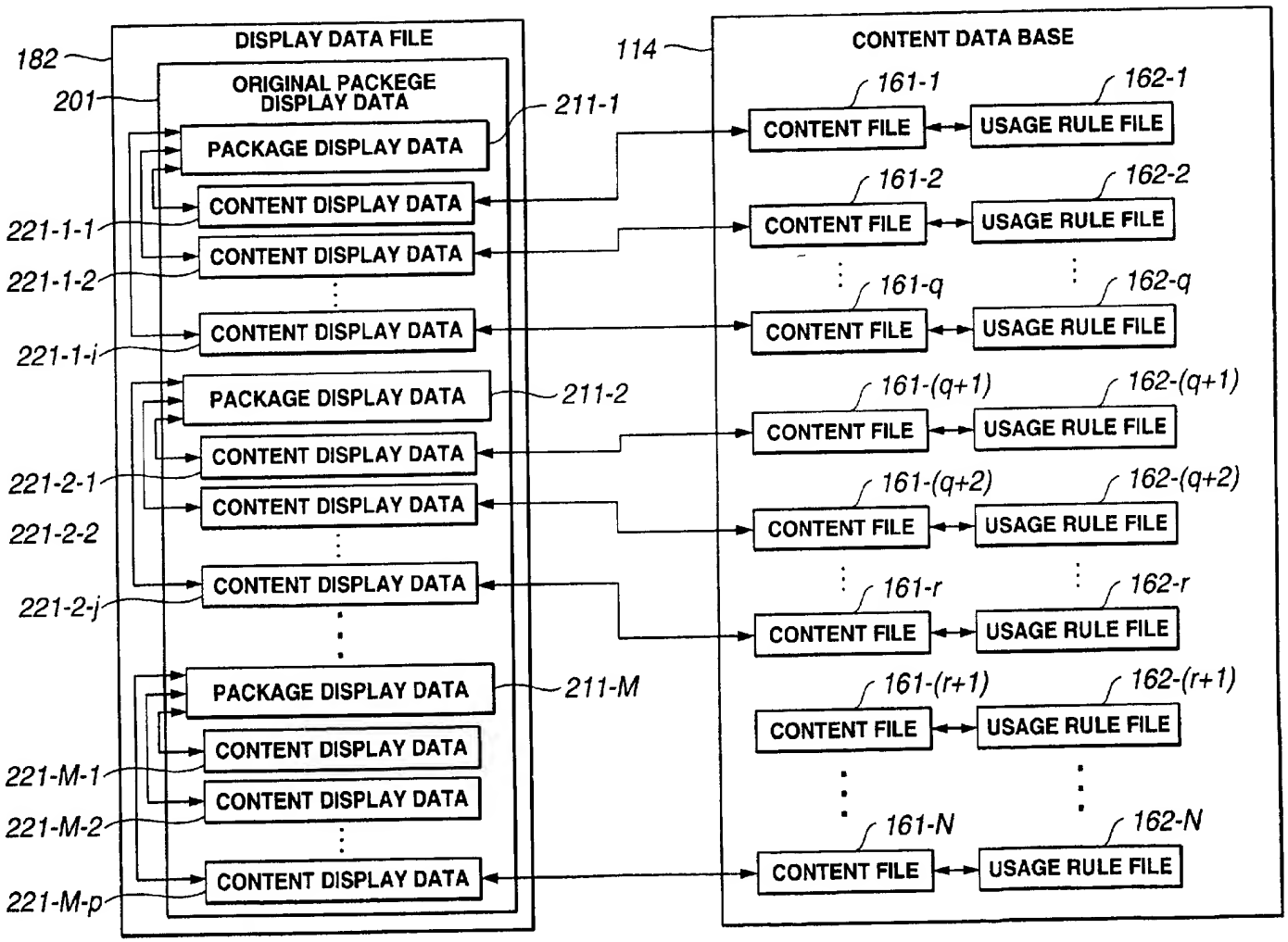

FIG.6

09135577 "27SET660

PACKAGE ID	PACKAGE TYPE	PACKAGE SOURCE	PACKAGE NAME	ARTIST NAME	GENRE NAME	PLAY TIME	REGISTRATION DATA	CORRESPONDING IMAGE FILE
PPP753	ORIGINAL	CD	FIRST	A. TARO	POP	54:23:00	99.11. 1	CoverArt1.JPG
ID FOR CONTENT BELONGING TO PACKAGE								
123×DES3	123×DES4	123×DES5	123×DES6	123×DES7	123×DES8	123×DES9	123×DES0	123×DET1

FIG.7A

FIG.7B

CONTENT ID	ORIGINAL PACKAGE	CONTENT NAME	NUMBER OF POSSIBLE CHECKOUTS	NUMBER OF MAXIMUM POSSIBLE CHECKOUTS	PLAY TIME	CORRESPONDING IMAGE FILE
123×DES3	PPP753	MINAMI-NO-SAKABA	3	3	3:05	CoverArt2.jpg

FIG.7C

CONTENT ID	DATA TYPE	DATA
123×DES3	CYBER CODE	XXXYYY
123×DES3	ISRC CODE	ZZZZZZZ
123×DES3	SONGWRITER NAME	ABE
123×DES3	COMPOSER NAME	KATO
123×DES4	CYBER CODE	DDDDKK
123×DES4	ISRC	ZZZZZZZ
123×DES4	REPRODUCTION PERIOD	99.12.31
123×DES4	NUMBER OF REPRODUCTION	15
123×DES4	EQUALIZER INFORMATION	ααα. βββ. γγγ
⋮	⋮	⋮

09/913577

20520 "4/5EP660

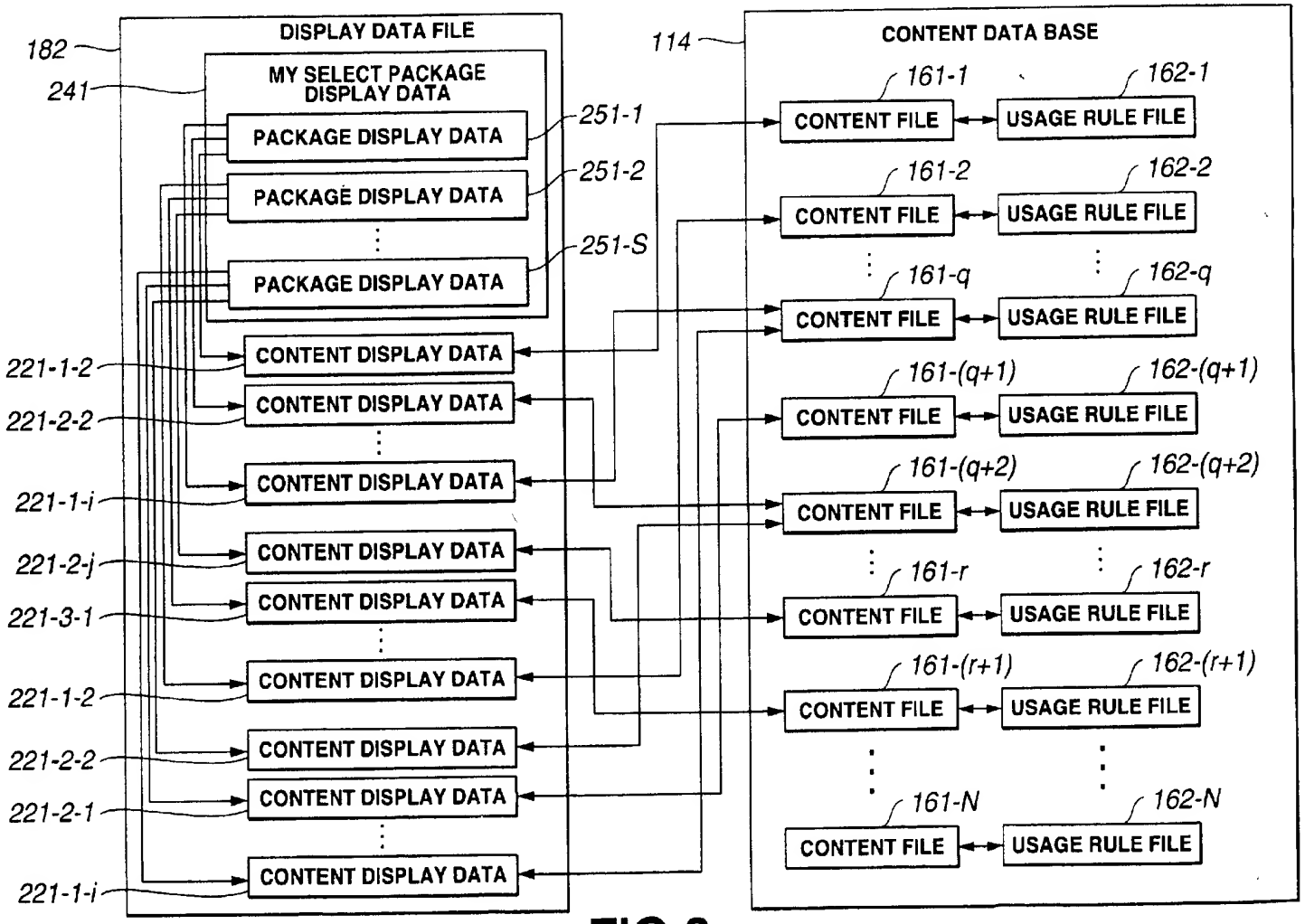

FIG.8

09/913571

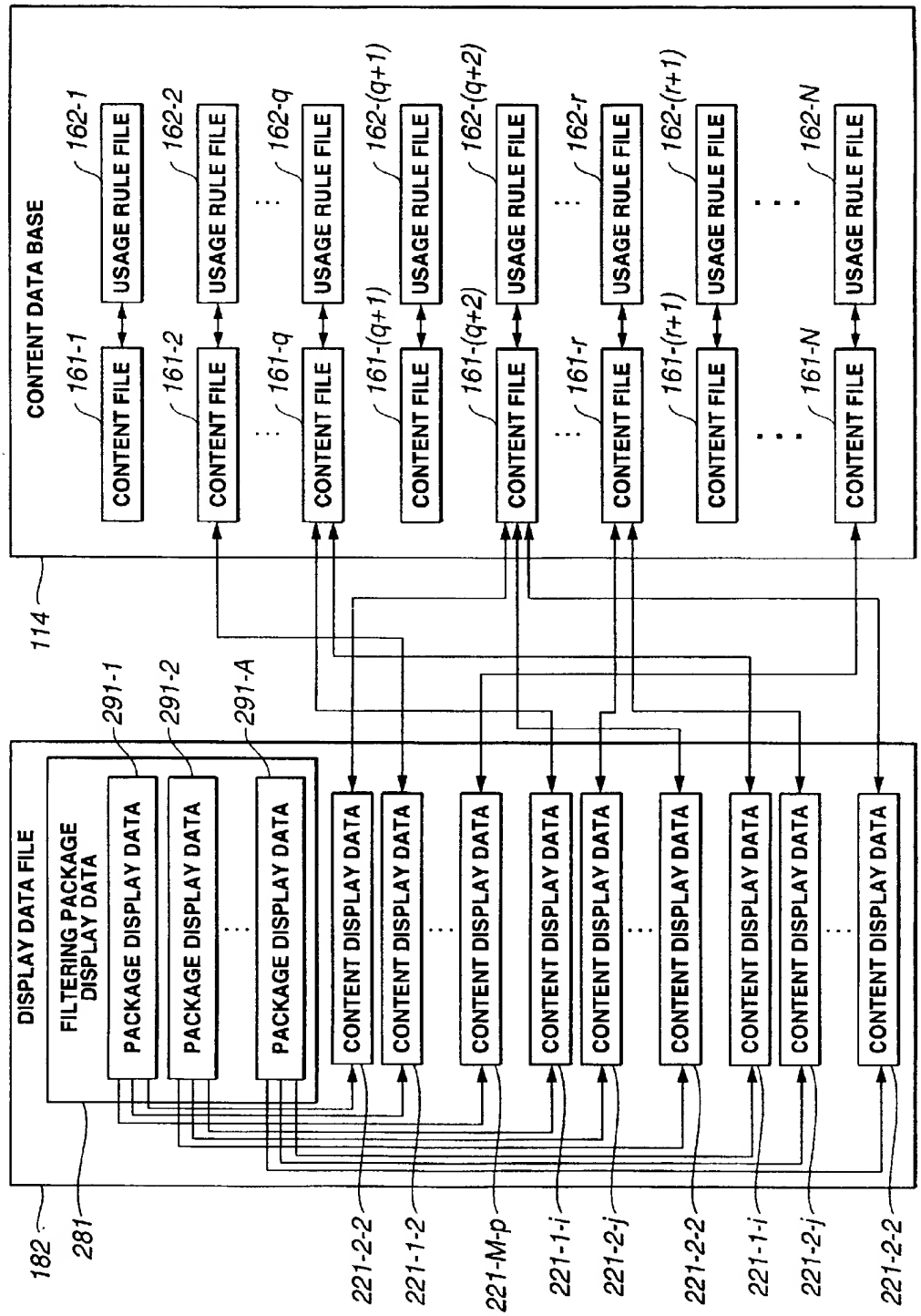
CONTENT DATA BASE
114
161-1
CONTENT FILE
162-1
USAGE RULE FILE
161-2
CONTENT FILE
162-2
USAGE RULE FILE
161-q
CONTENT FILE
162-q
USAGE RULE FILE
161-(q+1)
CONTENT FILE
162-(q+1)
USAGE RULE FILE
161-(q+2)
CONTENT FILE
162-(q+2)
USAGE RULE FILE
161-r
CONTENT FILE
162-r
USAGE RULE FILE
161-(r+1)
CONTENT FILE
162-(r+1)
USAGE RULE FILE
161-N
CONTENT FILE
162-N
USAGE RULE FILE
DISPLAY DATA FILE
182
281
FILTERING PACKAGE DISPLAY DATA
291-1
PACKAGE DISPLAY DATA
291-2
PACKAGE DISPLAY DATA
291-A
CONTENT DISPLAY DATA
221-2-2
CONTENT DISPLAY DATA
221-1-2
CONTENT DISPLAY DATA
221-M-p
CONTENT DISPLAY DATA
221-1-i
CONTENT DISPLAY DATA
221-2-j
CONTENT DISPLAY DATA
221-2-2
CONTENT DISPLAY DATA
221-1-i
CONTENT DISPLAY DATA
221-2-j
CONTENT DISPLAY DATA
221-2-2

FIG.9

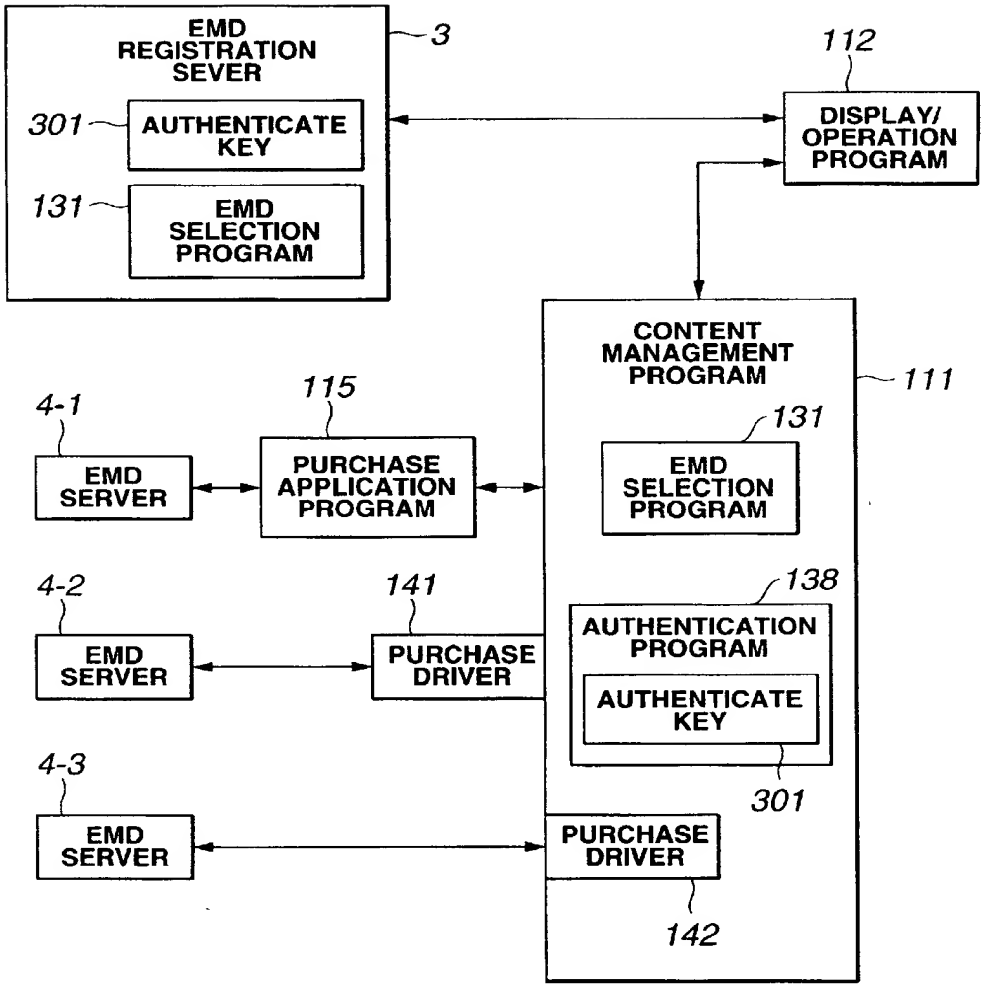
EMD REGISTRATION SEVER
3
301
AUTHENTICATE KEY
131
EMD SELECTION PROGRAM
112
DISPLAY/ OPERATION PROGRAM
CONTENT MANAGEMENT PROGRAM
111
131
EMD SELECTION PROGRAM
138
AUTHENTICATION PROGRAM
AUTHENTICATE KEY
301
115
4-1
EMD SERVER
PURCHASE APPLICATION PROGRAM
4-2
EMD SERVER
141
PURCHASE DRIVER
4-3
EMD SERVER
PURCHASE DRIVER
142

FIG.10

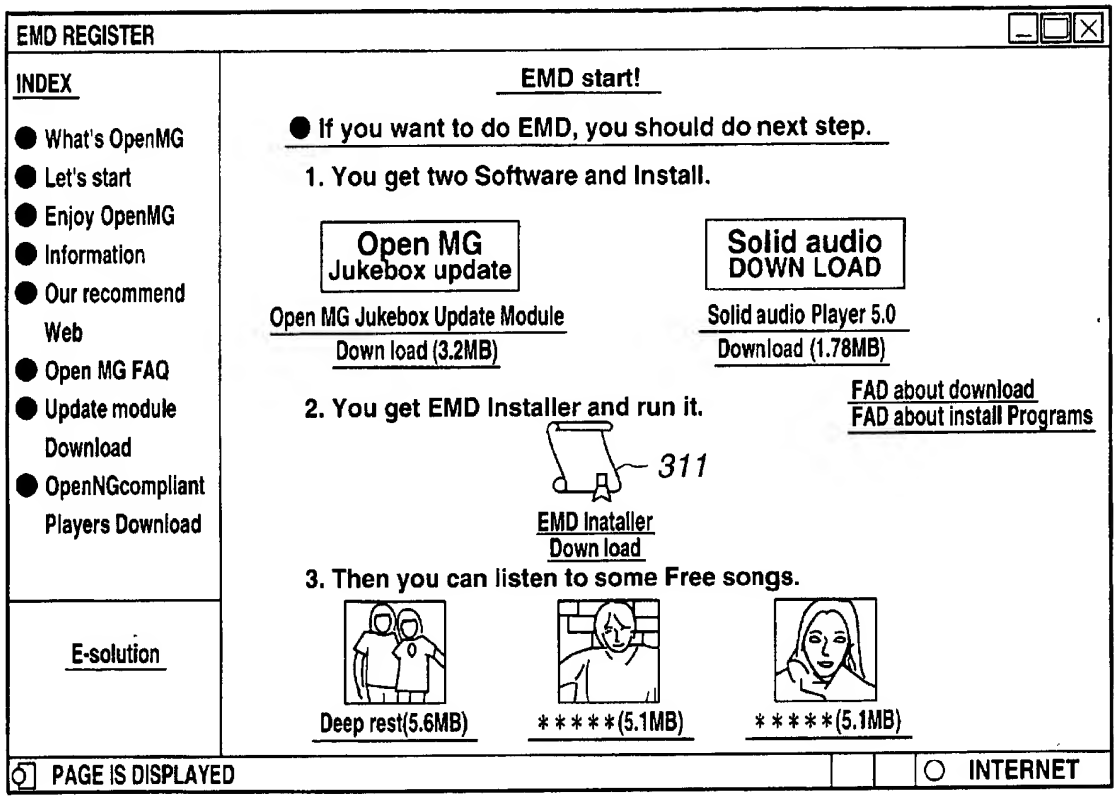
EMD REGISTER
INDEX
What's OpenMG
Let's start
Enjoy OpenMG
Information
Our recommend Web
Open MG FAQ
Update module Download
OpenNGcompliant Players Download
E-solution
EMD start!
If you want to do EMD, you should do next step.
1. You get two Software and Install.
Open MG Jukebox update
Open MG Jukebox Update Module
Down load (3.2MB)
Solid audio DOWN LOAD
Solid audio Player 5.0
Download (1.78MB)
FAD about download
FAD about install Programs
2. You get EMD Installer and run it.
311
EMD Inataller
Down load
3. Then you can listen to some Free songs.
Deep rest(5.6MB)
*****(5.1MB)
*****(5.1MB)
PAGE IS DISPLAYED
INTERNET

FIG.11

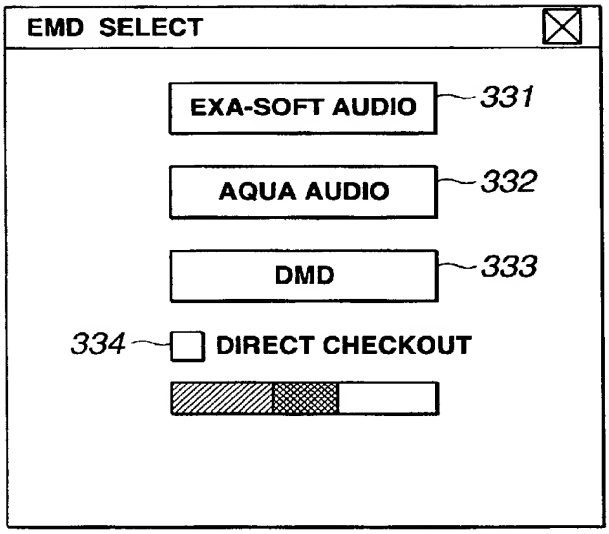
EMD SELECT
EXA-SOFT AUDIO
331
AQUA AUDIO
332
DMD
333
334
DIRECT CHECKOUT

FIG.12

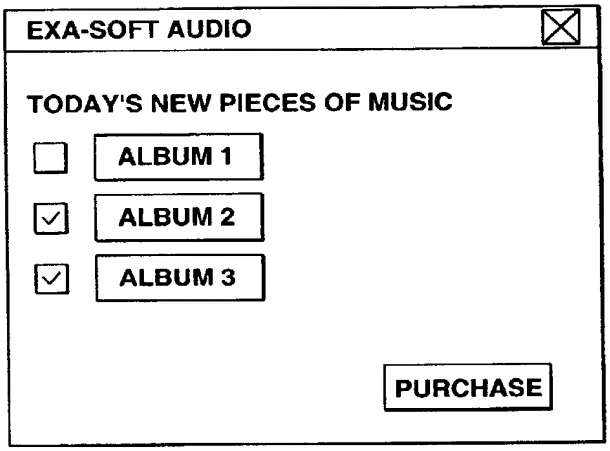

FIG.13

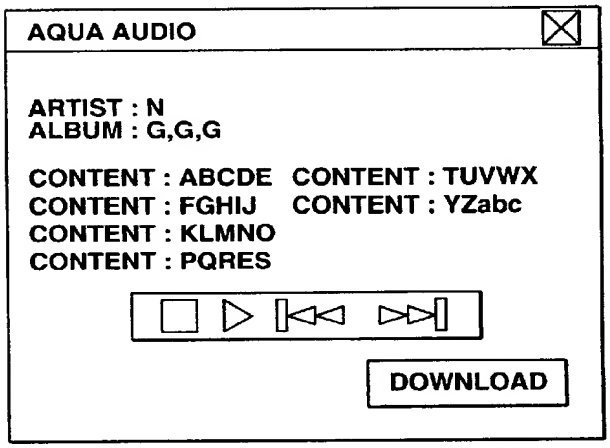

FIG.14

09913577 - 091305

20520 "22SE660

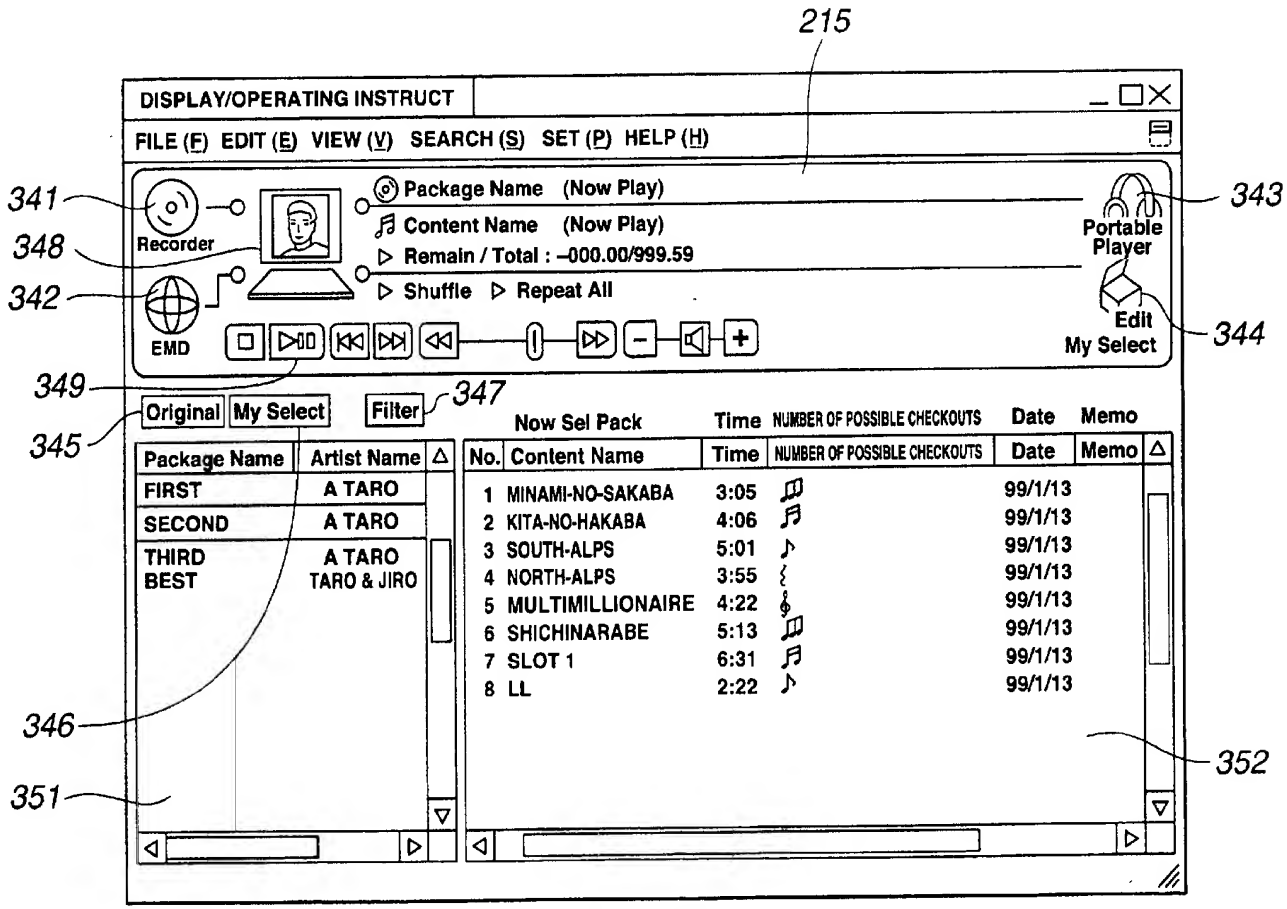

FIG.15

08/913572

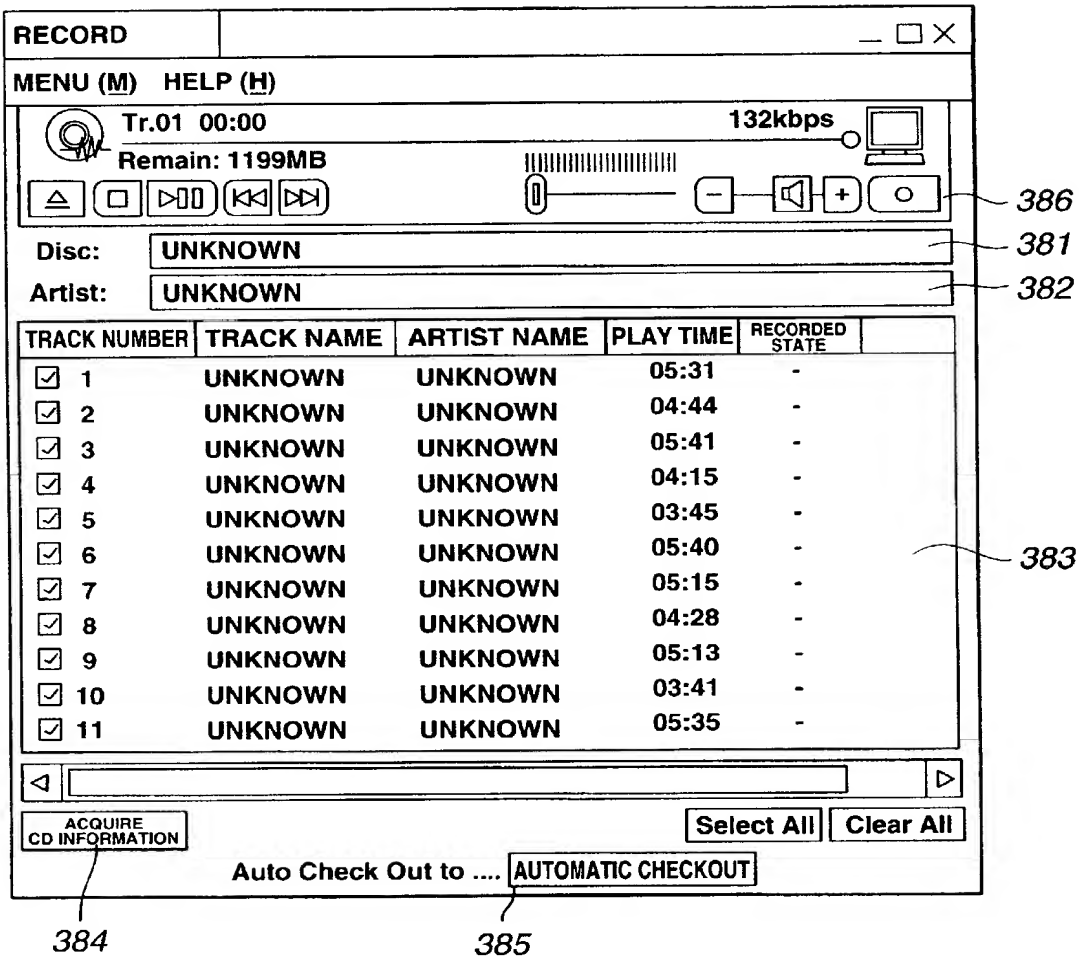
RECORD
MENU (M) HELP (H)
Tr.01 00:00
132kbps
Remain: 1199MB
386
Disc: UNKNOWN
381
Artist: UNKNOWN
382
TRACK NUMBER | TRACK NAME | ARTIST NAME | PLAY TIME | RECORDED STATE
1 UNKNOWN UNKNOWN 05:31 -
2 UNKNOWN UNKNOWN 04:44 -
3 UNKNOWN UNKNOWN 05:41 -
4 UNKNOWN UNKNOWN 04:15 -
5 UNKNOWN UNKNOWN 03:45 -
6 UNKNOWN UNKNOWN 05:40 -
7 UNKNOWN UNKNOWN 05:15 -
8 UNKNOWN UNKNOWN 04:28 -
9 UNKNOWN UNKNOWN 05:13 -
10 UNKNOWN UNKNOWN 03:41 -
11 UNKNOWN UNKNOWN 05:35 -
383
ACQUIRE CD INFORMATION
Select All
Clear All
Auto Check Out to .... AUTOMATIC CHECKOUT
384
385

FIG.16

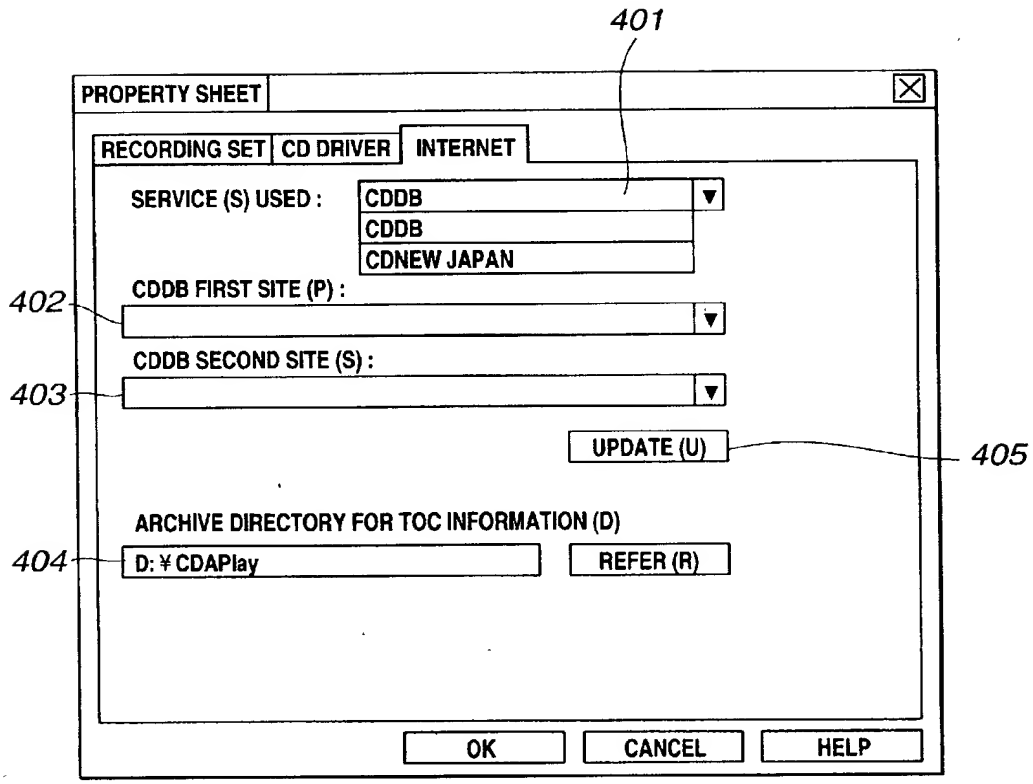
401
PROPERTY SHEET
RECORDING SET
CD DRIVER
INTERNET
SERVICE (S) USED :
CDDB
CDDB
CDNEW JAPAN
CDDB FIRST SITE (P) :
402
CDDB SECOND SITE (S) :
403
UPDATE (U)
405
ARCHIVE DIRECTORY FOR TOC INFORMATION (D)
404
D: ¥ CDAPlay
REFER (R)
OK
CANCEL
HELP

FIG.17

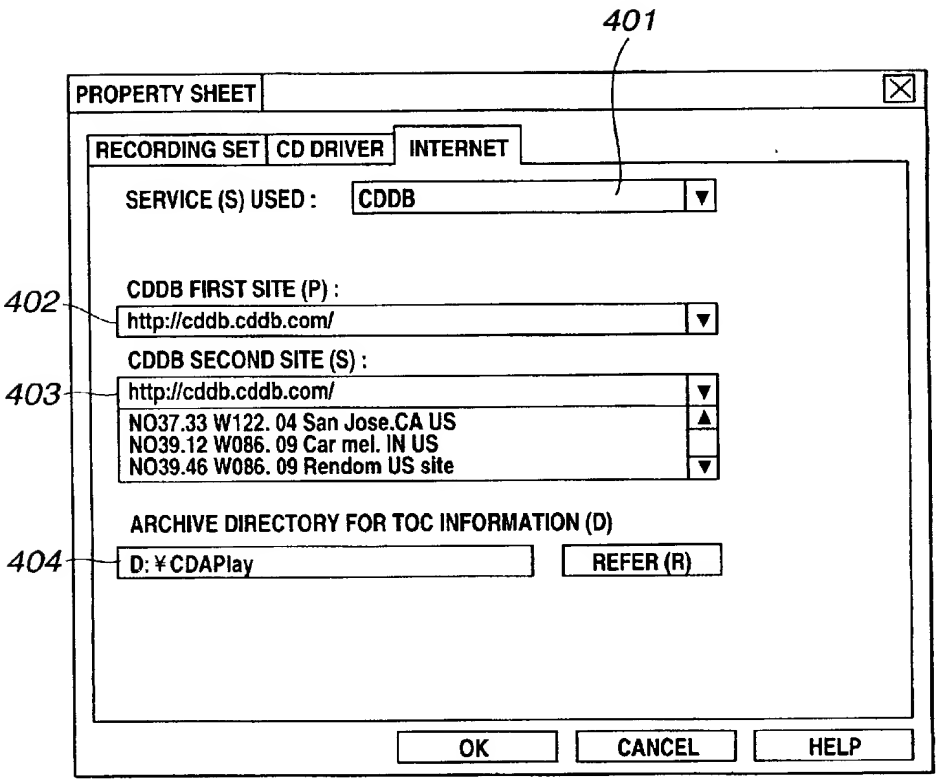
401
PROPERTY SHEET
RECORDING SET
CD DRIVER
INTERNET
SERVICE (S) USED :
CDDB
CDDB FIRST SITE (P) :
402
http://cddb.cddb.com/
CDDB SECOND SITE (S) :
403
http://cddb.cddb.com/
NO37.33 W122. 04 San Jose.CA US
NO39.12 W086. 09 Car mel. IN US
NO39.46 W086. 09 Rendom US site
ARCHIVE DIRECTORY FOR TOC INFORMATION (D)
404
D: ¥CDAPlay
REFER (R)
OK
CANCEL
HELP

FIG.18

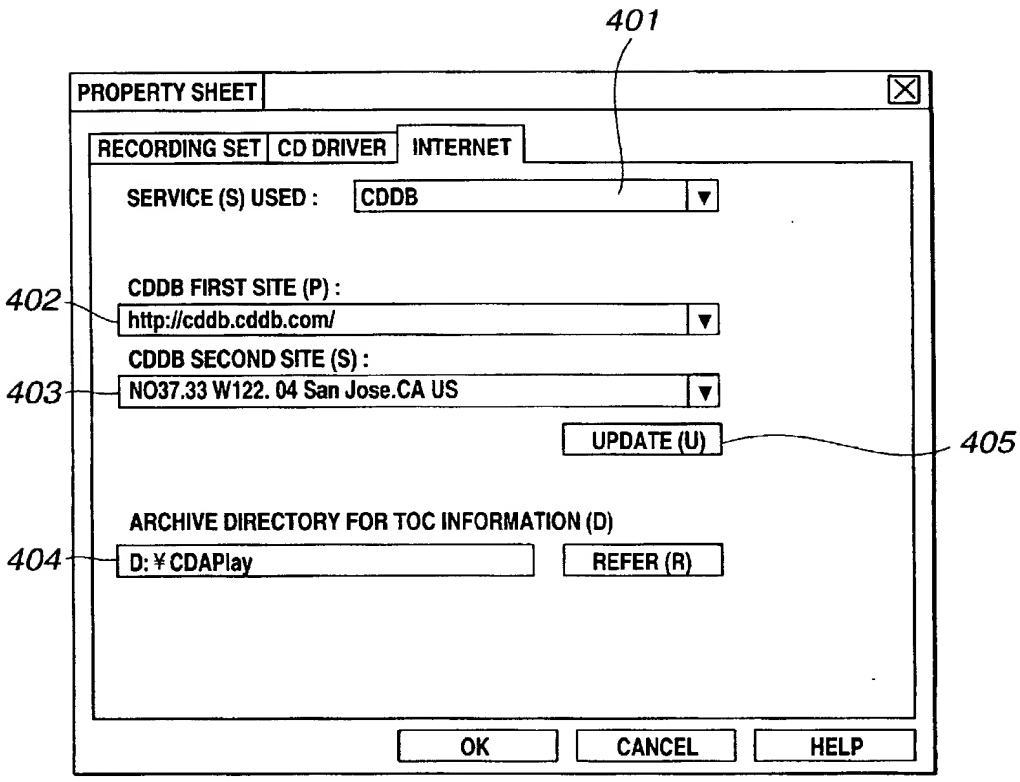
401
PROPERTY SHEET
RECORDING SET
CD DRIVER
INTERNET
SERVICE (S) USED :
CDDB
CDDB FIRST SITE (P) :
402
http://cddb.cddb.com/
CDDB SECOND SITE (S) :
403
NO37.33 W122. 04 San Jose.CA US
UPDATE (U)
405
ARCHIVE DIRECTORY FOR TOC INFORMATION (D)
404
D:¥CDAPlay
REFER (R)
OK
CANCEL
HELP

FIG.19

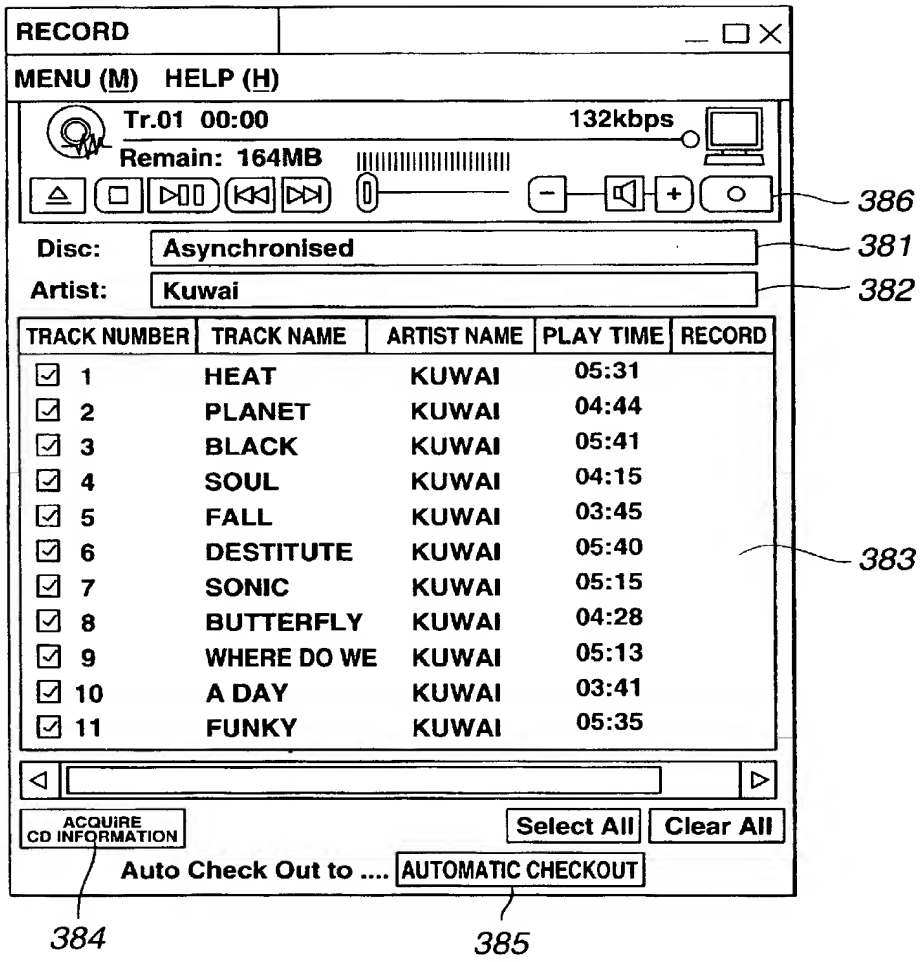
RECORD
MENU (M) HELP (H)
Tr.01 00:00
132kbps
Remain: 164MB
386
Disc: Asynchronised
381
Artist: Kuwai
382
TRACK NUMBER | TRACK NAME | ARTIST NAME | PLAY TIME | RECORD
1 HEAT KUWAI 05:31
2 PLANET KUWAI 04:44
3 BLACK KUWAI 05:41
4 SOUL KUWAI 04:15
5 FALL KUWAI 03:45
6 DESTITUTE KUWAI 05:40
7 SONIC KUWAI 05:15
8 BUTTERFLY KUWAI 04:28
9 WHERE DO WE KUWAI 05:13
10 A DAY KUWAI 03:41
11 FUNKY KUWAI 05:35
383
ACQUIRE CD INFORMATION
Select All
Clear All
Auto Check Out to ....
AUTOMATIC CHECKOUT
384
385

FIG.20

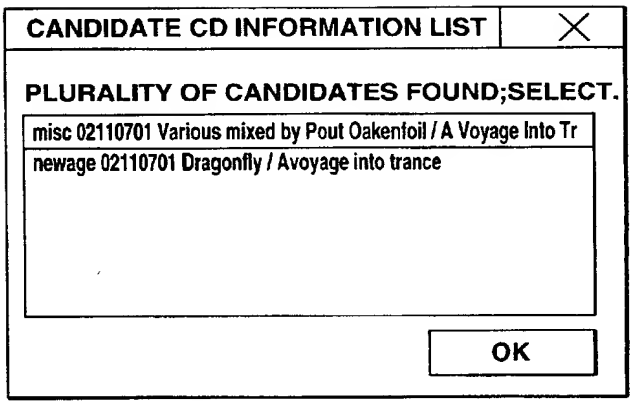

FIG.21

2003-04-25 09:55:46.0

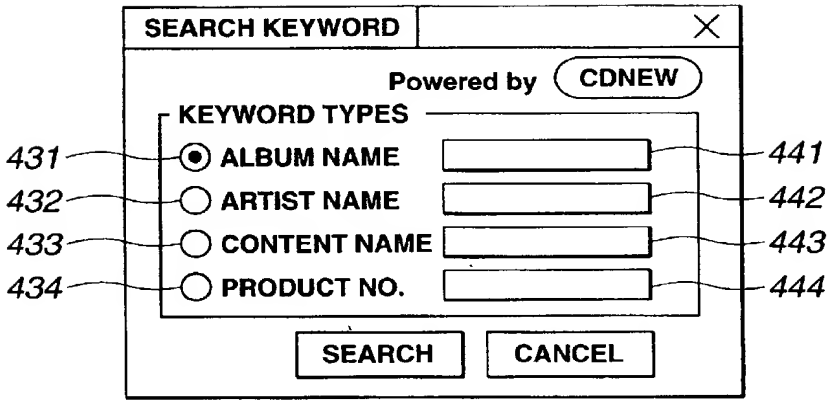
SEARCH KEYWORD
Powered by CDNEW
KEYWORD TYPES
431
ALBUM NAME
441
432
ARTIST NAME
442
433
CONTENT NAME
443
434
PRODUCT NO.
444
SEARCH
CANCEL

FIG.22

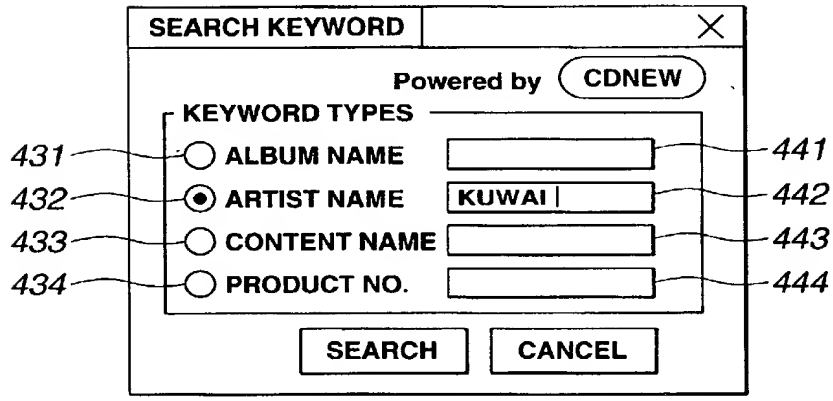
SEARCH KEYWORD
Powered by CDNEW
KEYWORD TYPES
431
ALBUM NAME
441
432
ARTIST NAME
KUWAI
442
433
CONTENT NAME
443
434
PRODUCT NO.
444
SEARCH
CANCEL

FIG.23

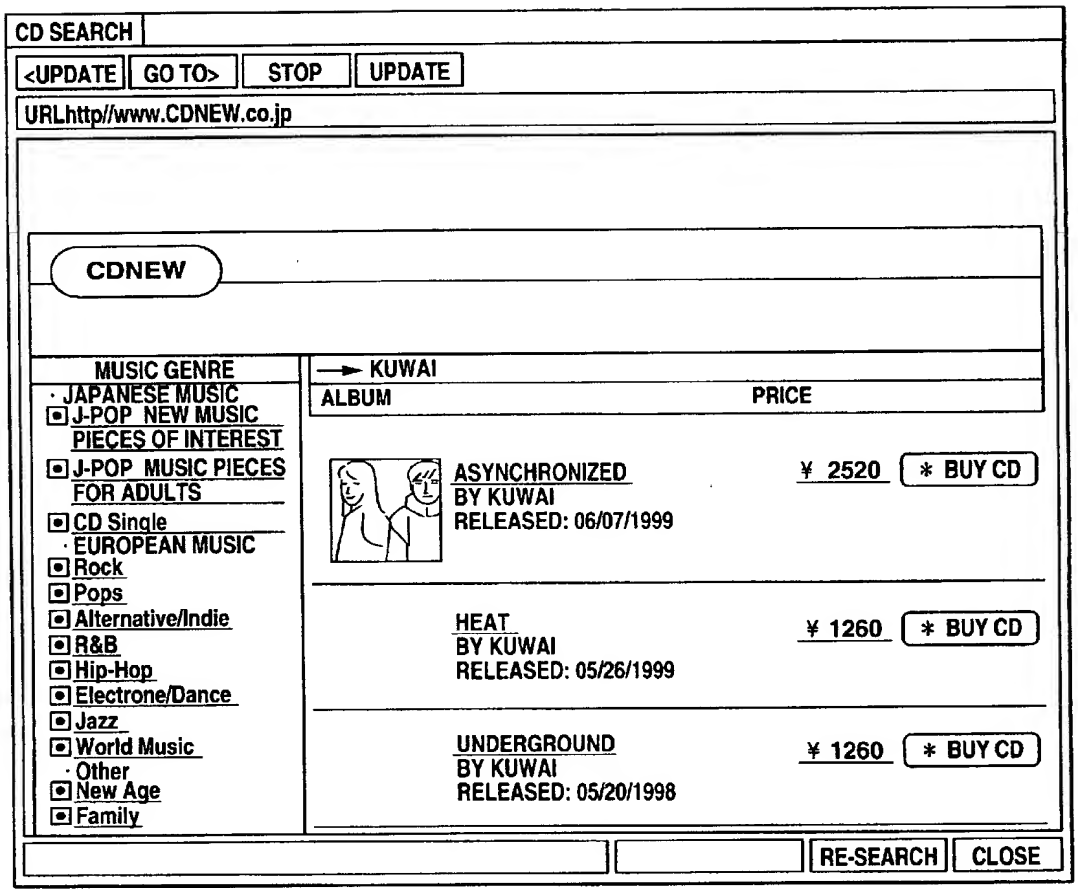
CD SEARCH
<UPDATE
GO TO>
STOP
UPDATE
URLhttp//www.CDNEW.co.jp
CDNEW
MUSIC GENRE
· JAPANESE MUSIC
J-POP NEW MUSIC PIECES OF INTEREST
J-POP MUSIC PIECES FOR ADULTS
CD Single
· EUROPEAN MUSIC
Rock
Pops
Alternative/Indie
R&B
Hip-Hop
Electrone/Dance
Jazz
World Music
· Other
New Age
Family
KUWAI
ALBUM
PRICE
ASYNCHRONIZED
BY KUWAI
RELEASED: 06/07/1999
¥ 2520
* BUY CD
HEAT
BY KUWAI
RELEASED: 05/26/1999
¥ 1260
* BUY CD
UNDERGROUND
BY KUWAI
RELEASED: 05/20/1998
¥ 1260
* BUY CD
RE-SEARCH
CLOSE

FIG.24

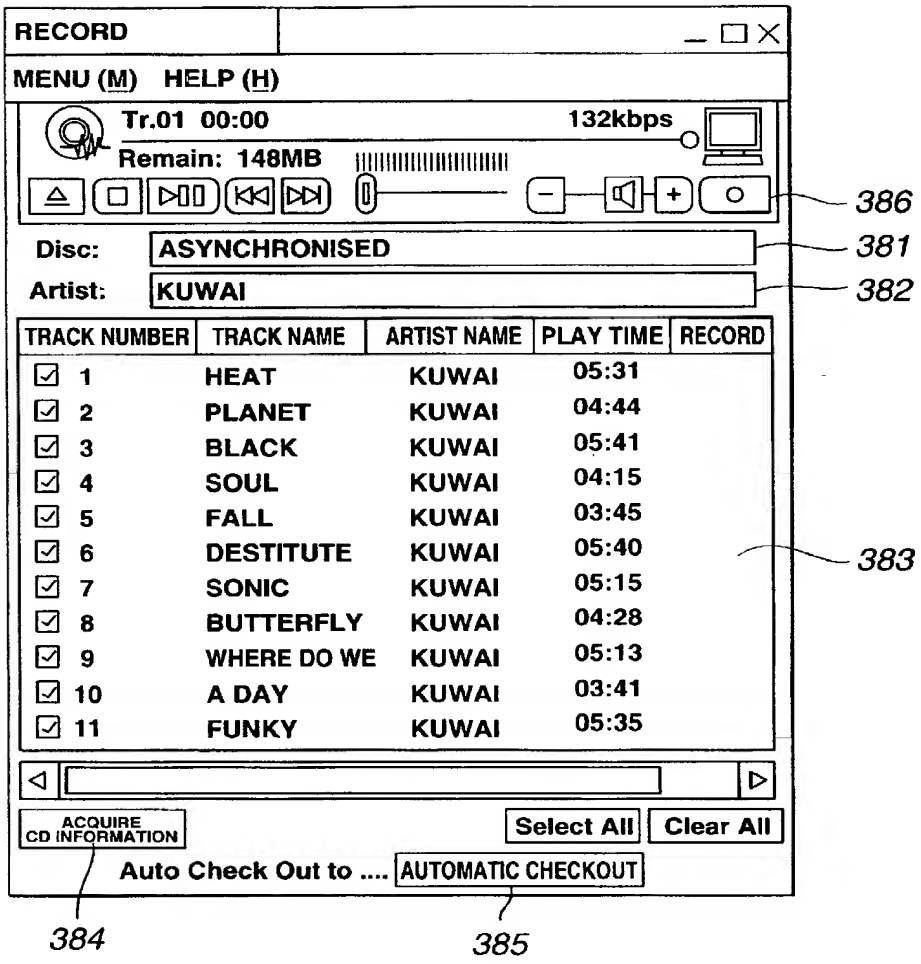
RECORD
MENU (M) HELP (H)
Tr.01 00:00
132kbps
Remain: 148MB
386
Disc: ASYNCHRONISED
381
Artist: KUWAI
382
TRACK NUMBER | TRACK NAME | ARTIST NAME | PLAY TIME | RECORD
1 HEAT KUWAI 05:31
2 PLANET KUWAI 04:44
3 BLACK KUWAI 05:41
4 SOUL KUWAI 04:15
5 FALL KUWAI 03:45
6 DESTITUTE KUWAI 05:40
7 SONIC KUWAI 05:15
8 BUTTERFLY KUWAI 04:28
9 WHERE DO WE KUWAI 05:13
10 A DAY KUWAI 03:41
11 FUNKY KUWAI 05:35
383
ACQUIRE CD INFORMATION
Select All
Clear All
Auto Check Out to ....
AUTOMATIC CHECKOUT
384
385

FIG.25

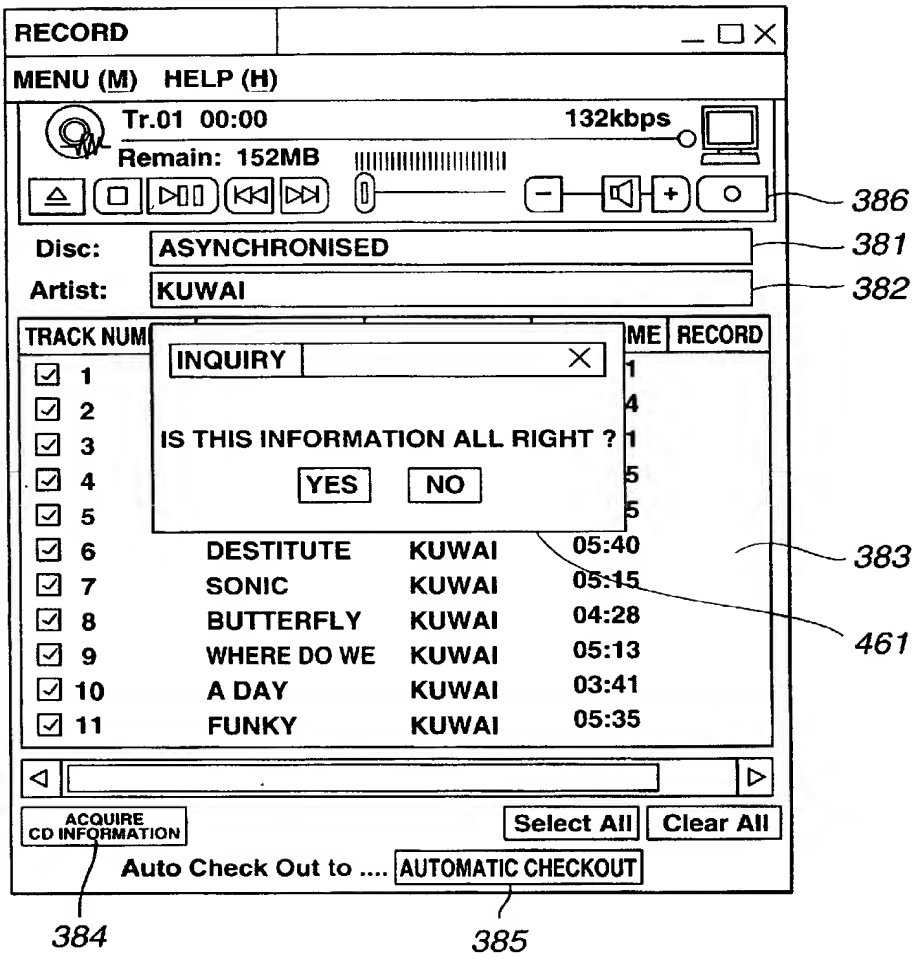
RECORD
MENU (M) HELP (H)
Tr.01 00:00
132kbps
Remain: 152MB
Disc: ASYNCHRONISED
Artist: KUWAI
TRACK NUM
ME
RECORD
INQUIRY
IS THIS INFORMATION ALL RIGHT ?
YES
NO
1
2
3
4
5
6 DESTITUTE KUWAI 05:40
7 SONIC KUWAI 05:15
8 BUTTERFLY KUWAI 04:28
9 WHERE DO WE KUWAI 05:13
10 A DAY KUWAI 03:41
11 FUNKY KUWAI 05:35
ACQUIRE CD INFORMATION
Select All
Clear All
Auto Check Out to ....
AUTOMATIC CHECKOUT
386
381
382
383
461
384
385

FIG.26

20520 "275660

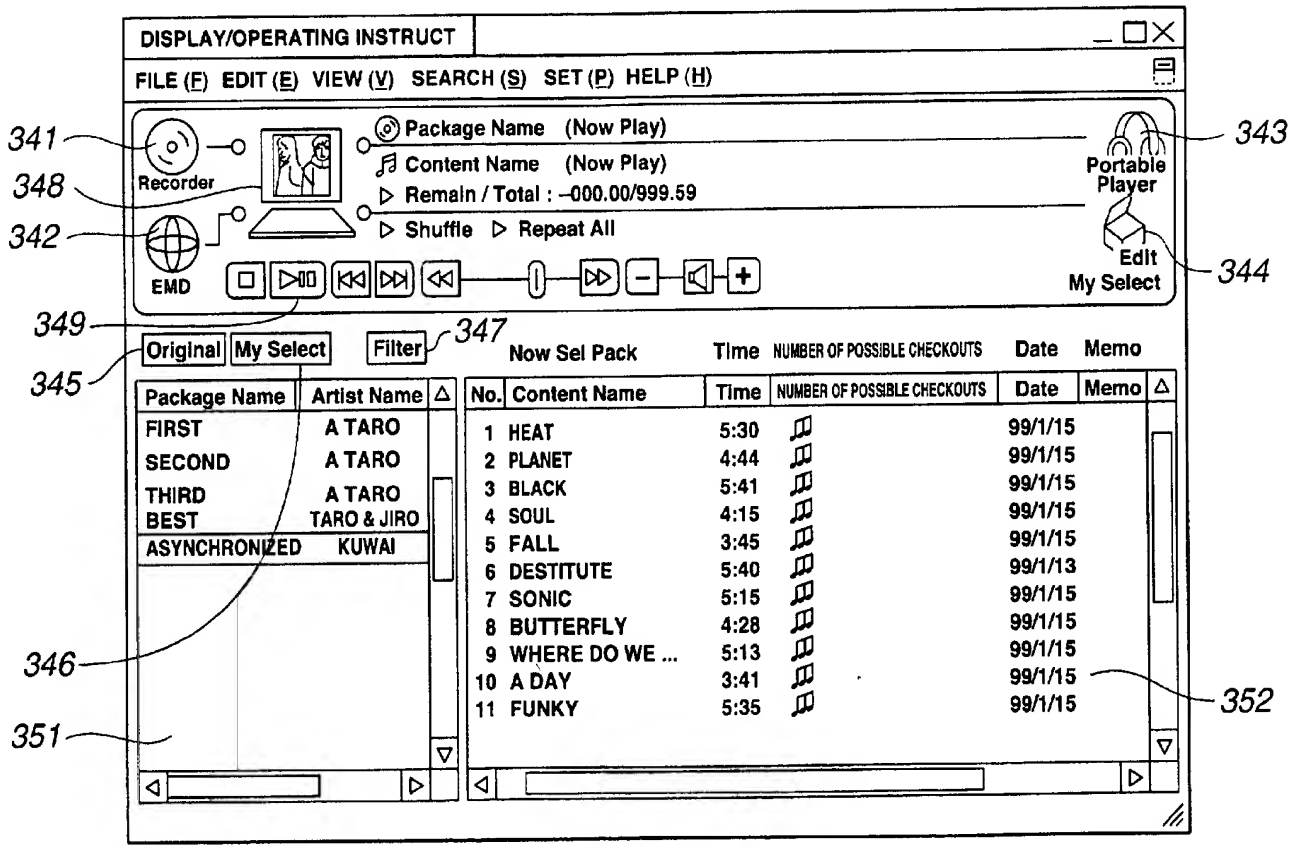

FIG.27

09/913577

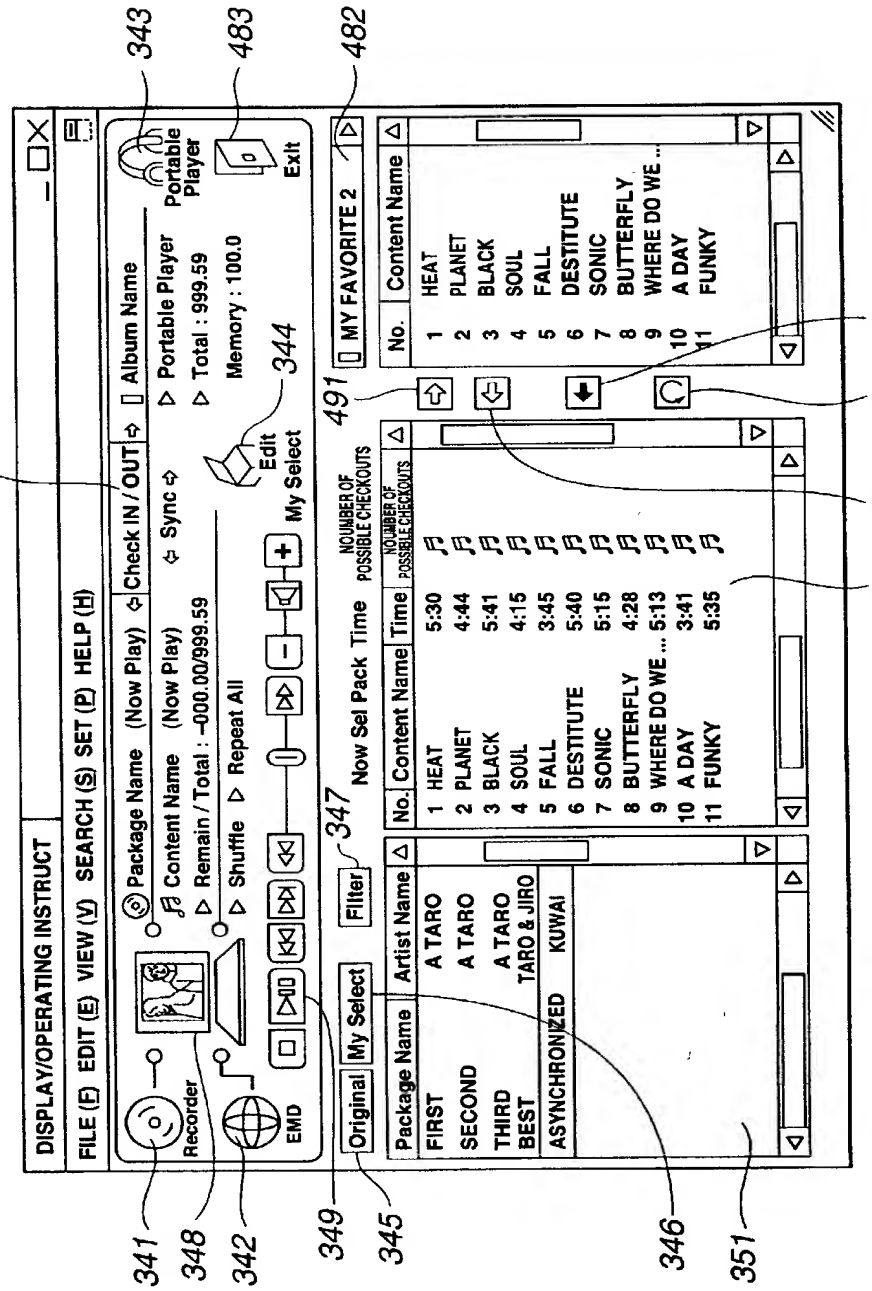
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Check IN / OUT
Album Name
Content Name (Now Play)
Sync
Portable Player
Total : 999.59
Remain / Total : -000.00/999.59
Memory : 100.0
Shuffle
Repeat All
Recorder
EMD
Edit
My Select
Portable Player
Exit
MY FAVORITE 2
Original
My Select
Filter
Now Sel Pack Time
NOUMBER OF POSSIBLE CHECKOUTS
Package Name
Artist Name
FIRST A TARO
SECOND A TARO
THIRD A TARO
BEST TARO & JIRO
ASYNCHRONIZED KUWAI
No.
Content Name
Time
1 HEAT 5:30
2 PLANET 4:44
3 BLACK 5:41
4 SOUL 4:15
5 FALL 3:45
6 DESTITUTE 5:40
7 SONIC 5:15
8 BUTTERFLY 4:28
9 WHERE DO WE ... 5:13
10 A DAY 3:41
11 FUNKY 5:35
No.
Content Name
1 HEAT
2 PLANET
3 BLACK
4 SOUL
5 FALL
6 DESTITUTE
7 SONIC
8 BUTTERFLY
9 WHERE DO WE ...
10 A DAY
11 FUNKY
341
348
342
349
345
346
351
352
492
493
494
491
344
347
484
482
483
343

FIG.28

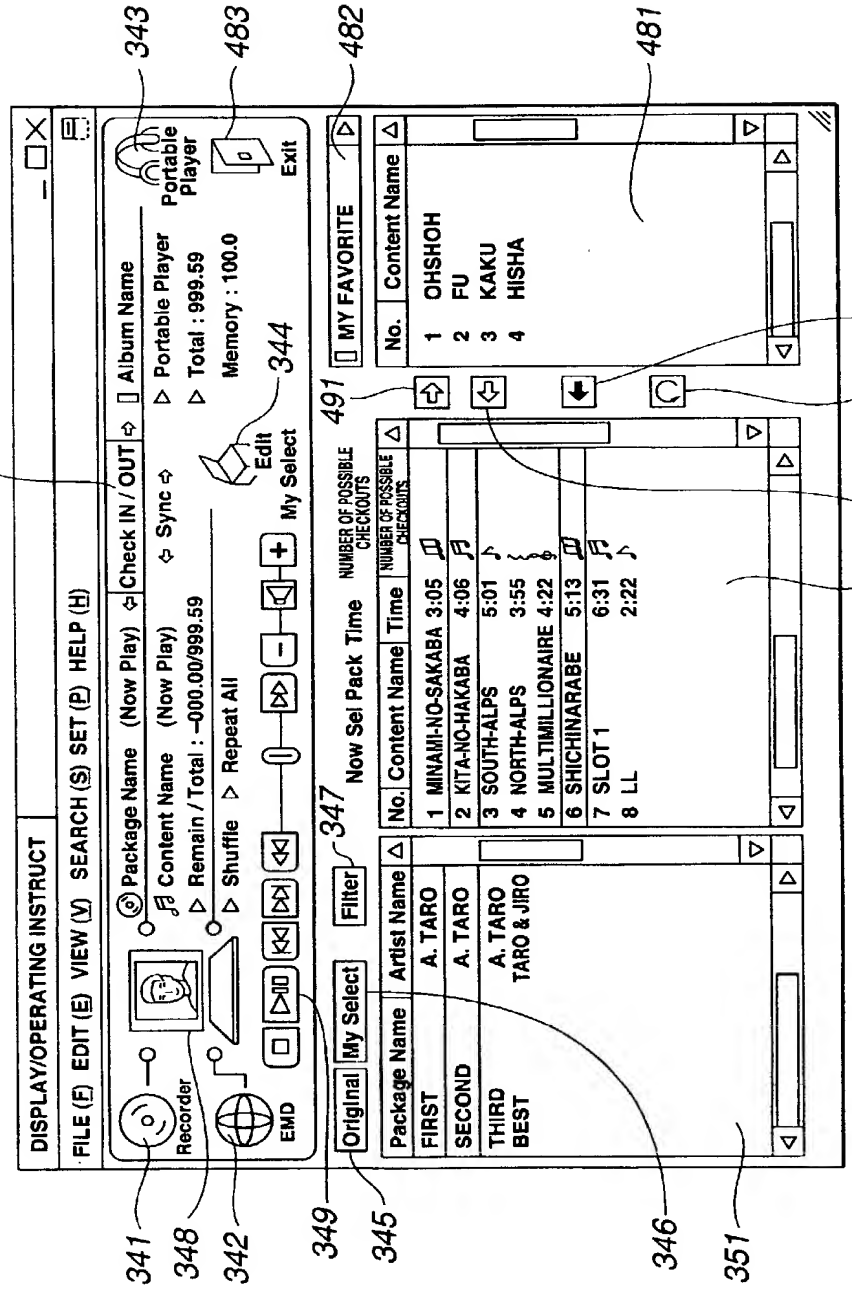
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Check IN / OUT
Sync
Album Name
Portable Player
Total : 999.59
Memory : 100.0
Portable Player
Exit
Shuffle
Repeat All
Edit
My Select
Recorder
EMD
Original
My Select
Filter
Now Sel Pack Time
NUMBER OF POSSIBLE CHECKOUTS
MY FAVORITE
Package Name
Artist Name
FIRST
A. TARO
SECOND
A. TARO
THIRD
A. TARO
BEST
TARO & JIRO
No.
Content Name
Time
1 MINAMI-NO-SAKABA 3:05
2 KITA-NO-HAKABA 4:06
3 SOUTH-ALPS 5:01
4 NORTH-ALPS 3:55
5 MULTIMILLIONAIRE 4:22
6 SHICHINARABE 5:13
7 SLOT 1 6:31
8 LL 2:22
No.
Content Name
1 OHSHOH
2 FU
3 KAKU
4 HISHA
341
342
343
344
345
346
347
348
349
351
352
481
482
483
484
491
492
493
494

FIG.29

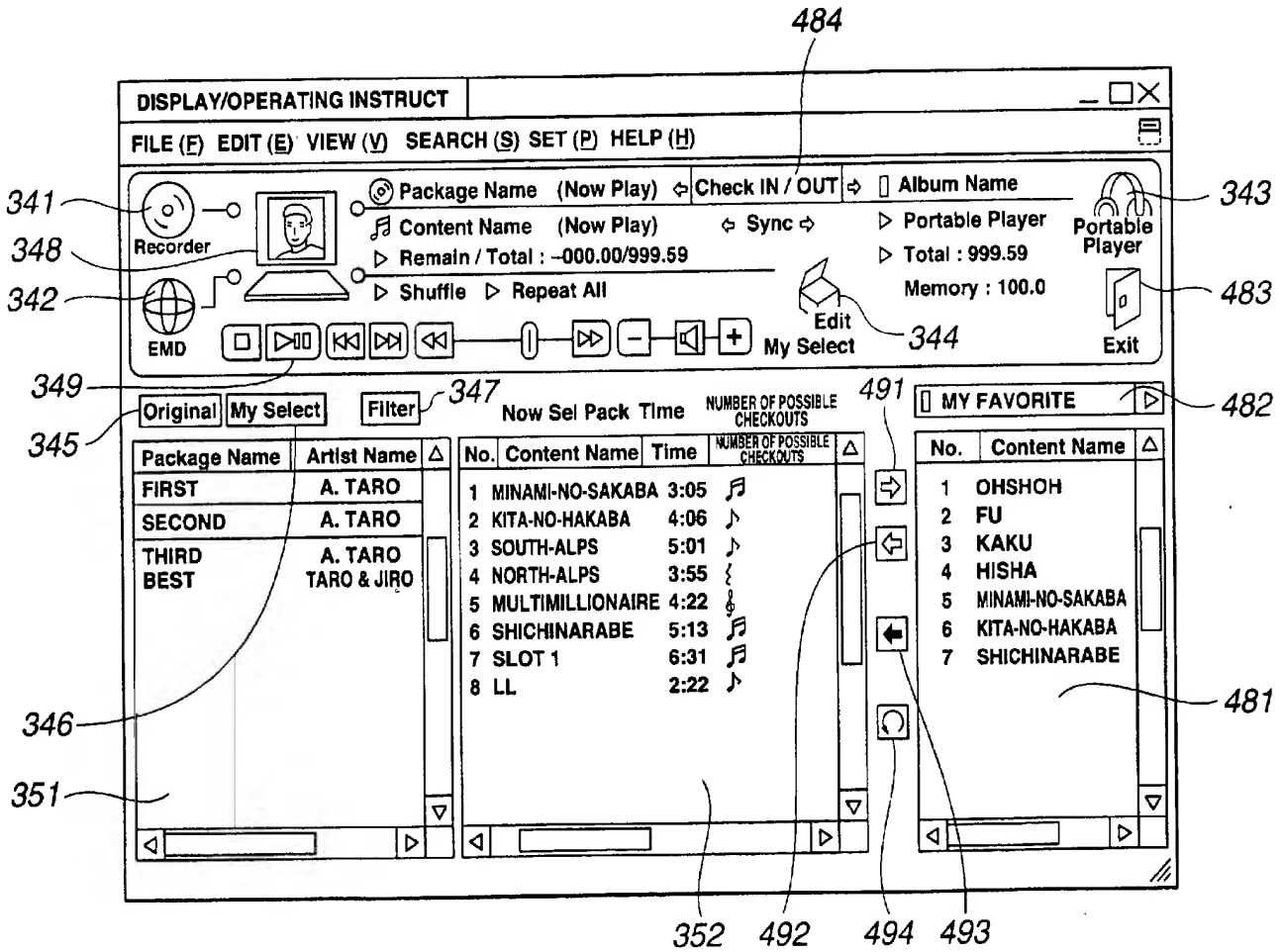
484
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
341
Recorder
348
342
EMD
Package Name (Now Play)
Check IN / OUT
Album Name
Content Name (Now Play)
Sync
Portable Player
Remain / Total : -000.00/999.59
Total : 999.59
Shuffle
Repeat All
Memory : 100.0
Edit
My Select
344
343
Portable Player
483
Exit
349
345
Original
My Select
Filter
347
Now Sel Pack Time
NUMBER OF POSSIBLE CHECKOUTS
491
MY FAVORITE
482
Package Name
Artist Name
FIRST
A. TARO
SECOND
A. TARO
THIRD
A. TARO
BEST
TARO & JIRO
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
1 MINAMI-NO-SAKABA 3:05
2 KITA-NO-HAKABA 4:06
3 SOUTH-ALPS 5:01
4 NORTH-ALPS 3:55
5 MULTIMILLIONAIRE 4:22
6 SHICHINARABE 5:13
7 SLOT 1 6:31
8 LL 2:22
No.
Content Name
1 OHSHOH
2 FU
3 KAKU
4 HISHA
5 MINAMI-NO-SAKABA
6 KITA-NO-HAKABA
7 SHICHINARABE
481
346
351
352
492
494
493

FIG.30

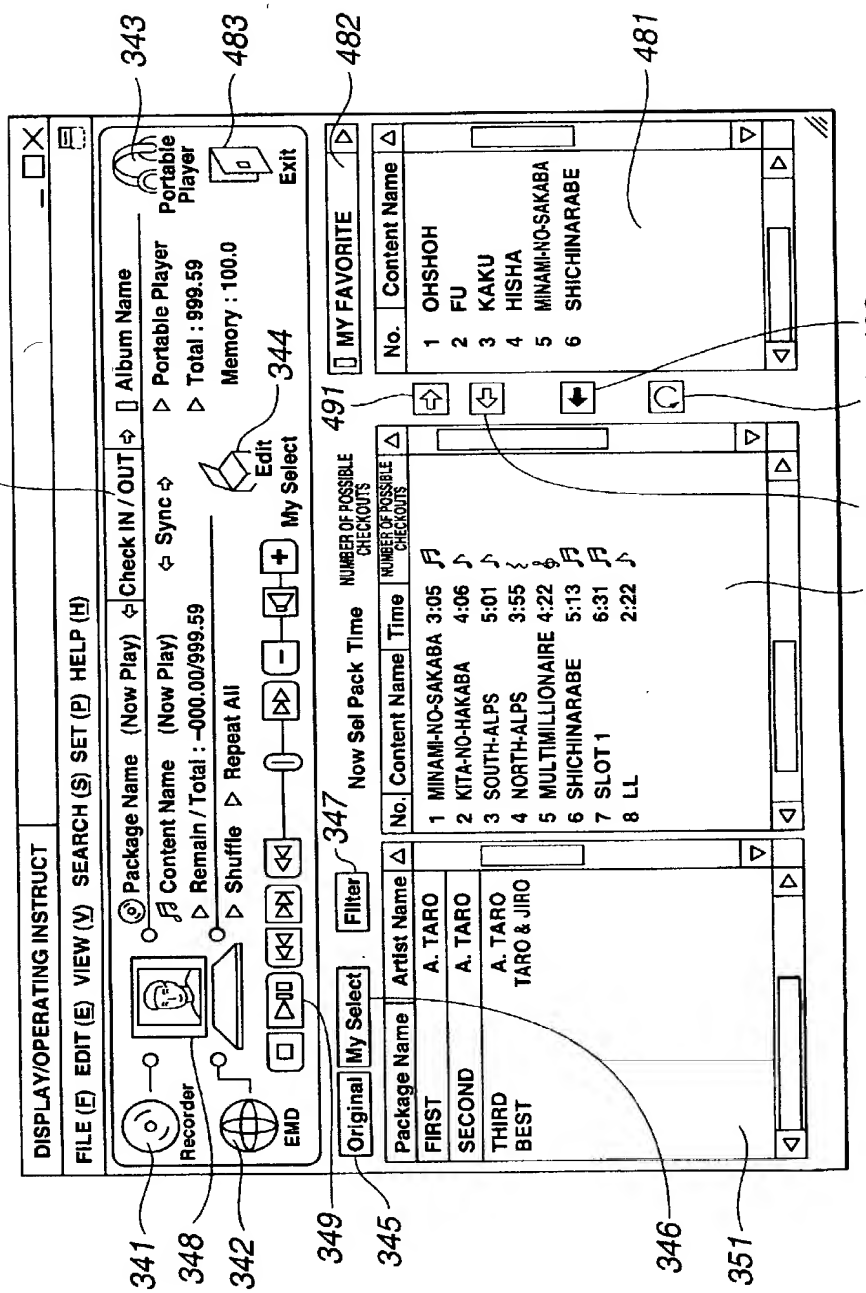
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Check IN / OUT
Album Name
Portable Player
Content Name (Now Play)
Sync
Total : 999.59
Remain / Total : -000.00/999.59
Memory : 100.0
Shuffle
Repeat All
Edit
My Select
Exit
Recorder
EMD
Original
My Select
Filter
Now Sel Pack Time
NUMBER OF POSSIBLE CHECKOUTS
MY FAVORITE
Package Name
Artist Name
FIRST
A. TARO
SECOND
A. TARO
THIRD
A. TARO
BEST
TARO & JIRO
No.
Content Name
Time
1 MINAMI-NO-SAKABA 3:05
2 KITA-NO-HAKABA 4:06
3 SOUTH-ALPS 5:01
4 NORTH-ALPS 3:55
5 MULTIMILLIONAIRE 4:22
6 SHICHINARABE 5:13
7 SLOT 1 6:31
8 LL 2:22
No.
Content Name
1 OHSHOH
2 FU
3 KAKU
4 HISHA
5 MINAMI-NO-SAKABA
6 SHICHINARABE
341
342
343
344
345
346
347
348
349
351
352
481
482
483
484
491
492
493
494

FIG.31

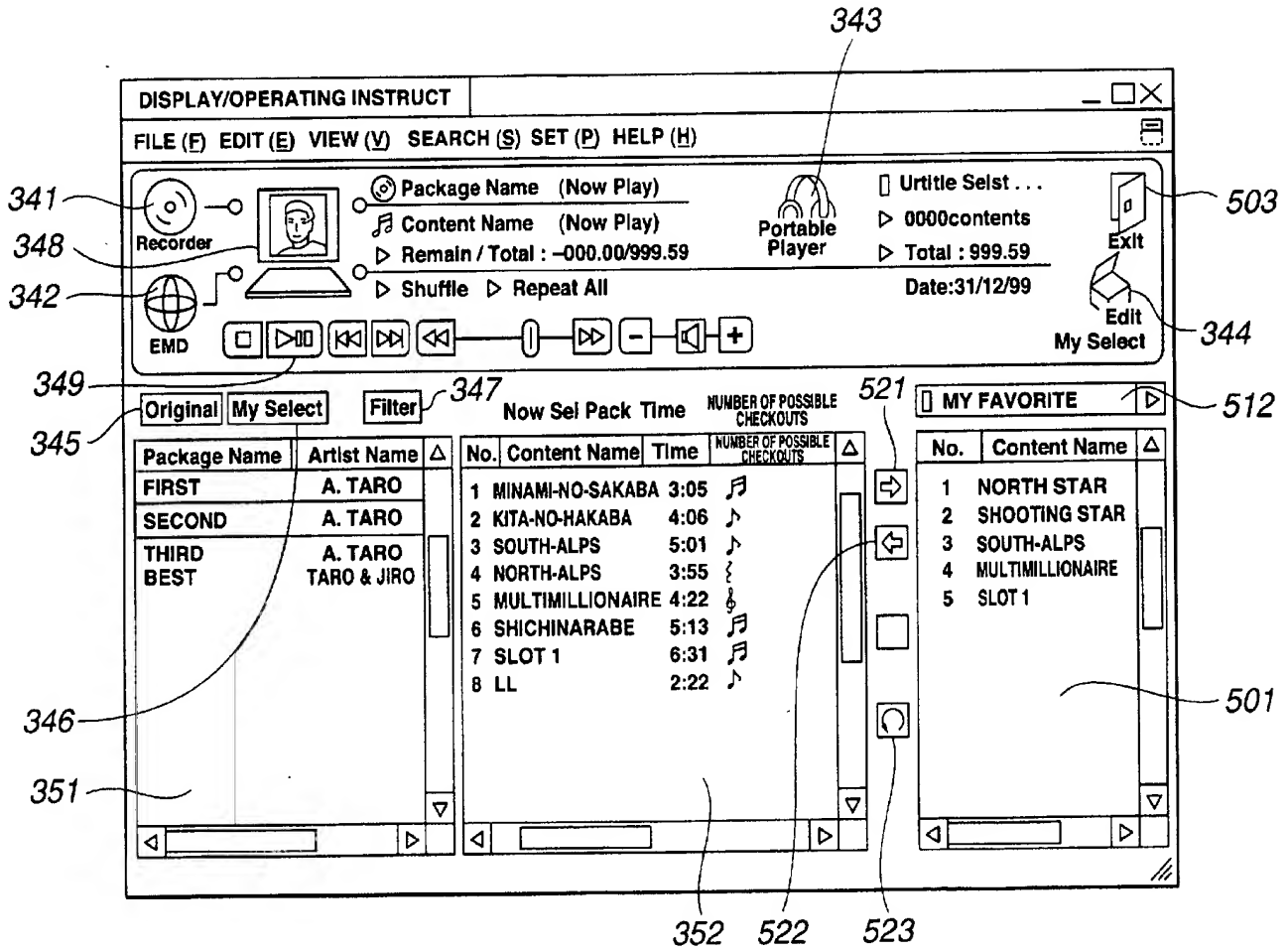
343
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
341
Recorder
348
342
EMD
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle
Repeat All
Portable Player
Urtitle Selst . . .
0000contents
Total : 999.59
Date:31/12/99
503
Exit
Edit My Select
344
349
345
Original
My Select
Filter
347
Now Sel Pack Time
NUMBER OF POSSIBLE CHECKOUTS
521
MY FAVORITE
512
Package Name
Artist Name
FIRST
A. TARO
SECOND
A. TARO
THIRD BEST
A. TARO
TARO & JIRO
No.
Content Name
Time
1 MINAMI-NO-SAKABA 3:05
2 KITA-NO-HAKABA 4:06
3 SOUTH-ALPS 5:01
4 NORTH-ALPS 3:55
5 MULTIMILLIONAIRE 4:22
6 SHICHINARABE 5:13
7 SLOT 1 6:31
8 LL 2:22
1 NORTH STAR
2 SHOOTING STAR
3 SOUTH-ALPS
4 MULTIMILLIONAIRE
5 SLOT 1
501
346
351
352
522
523

FIG.32

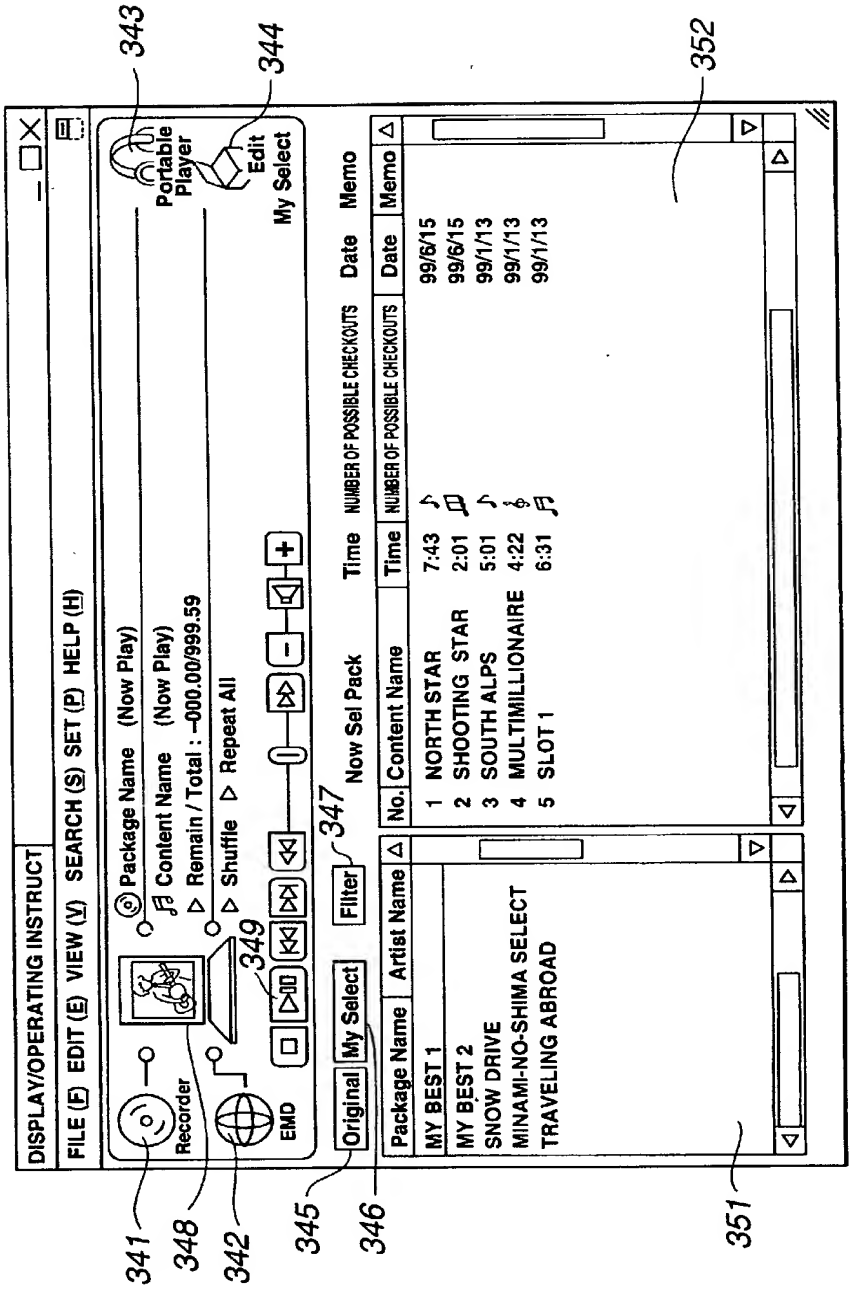
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle
Repeat All
Recorder
EMD
Portable Player
Edit My Select
Original
My Select
Filter
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
MY BEST 1
MY BEST 2
SNOW DRIVE
MINAMI-NO-SHIMA SELECT
TRAVELING ABROAD
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
1 NORTH STAR 7:43 99/6/15
2 SHOOTING STAR 2:01 99/6/15
3 SOUTH ALPS 5:01 99/1/13
4 MULTIMILLIONAIRE 4:22 99/1/13
5 SLOT 1 6:31 99/1/13
341
342
343
344
345
346
347
348
349
351
352

FIG.33

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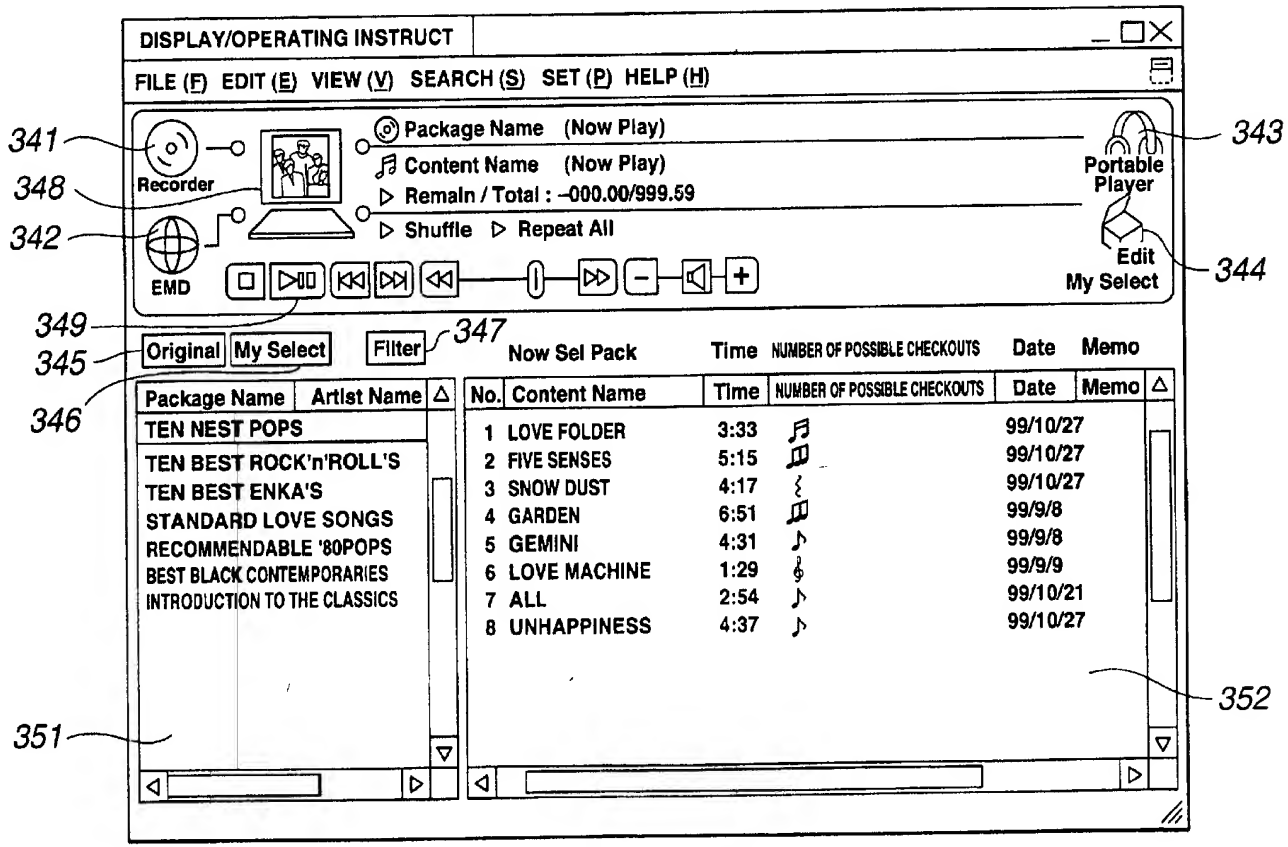

FIG.34

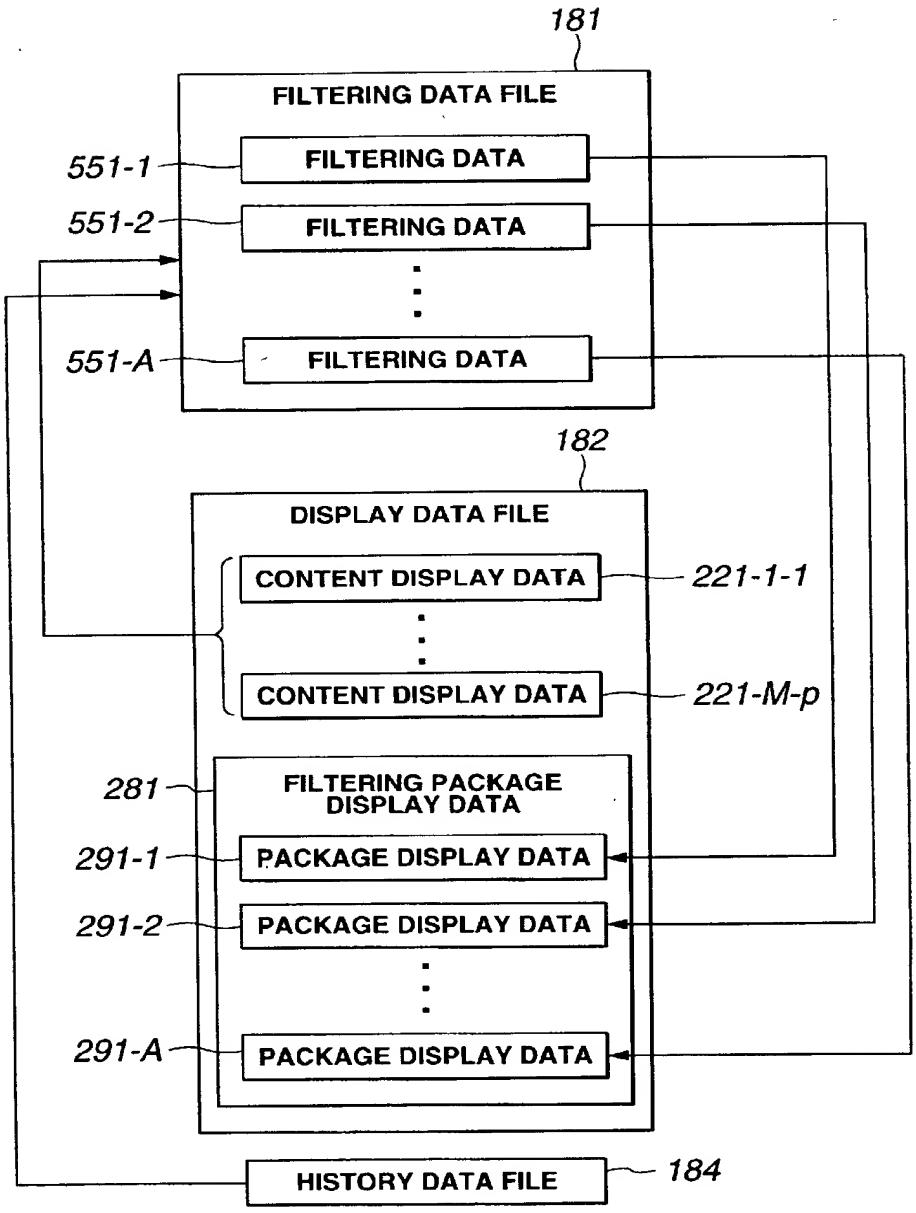
181
FILTERING DATA FILE
551-1
FILTERING DATA
551-2
FILTERING DATA
551-A
FILTERING DATA
182
DISPLAY DATA FILE
CONTENT DISPLAY DATA
221-1-1
CONTENT DISPLAY DATA
221-M-p
281
FILTERING PACKAGE DISPLAY DATA
291-1
PACKAGE DISPLAY DATA
291-2
PACKAGE DISPLAY DATA
291-A
PACKAGE DISPLAY DATA
HISTORY DATA FILE
184

FIG.35

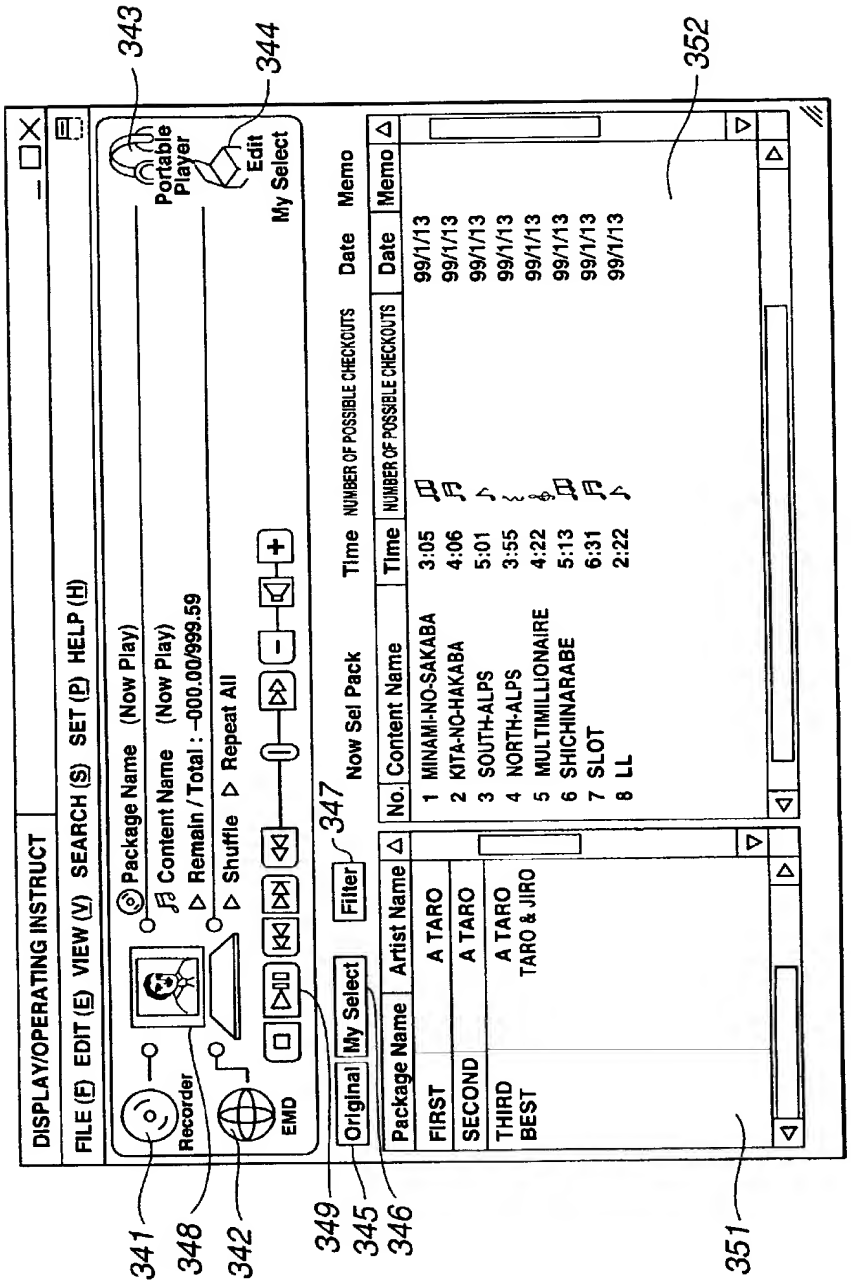
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle
Repeat All
Recorder
EMD
Portable Player
Edit
My Select
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Original
My Select
Filter
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
1 MINAMI-NO-SAKABA 3:05 99/1/13
2 KITA-NO-HAKABA 4:06 99/1/13
3 SOUTH-ALPS 5:01 99/1/13
4 NORTH-ALPS 3:55 99/1/13
5 MULTIMILLIONAIRE 4:22 99/1/13
6 SHICHINARABE 5:13 99/1/13
7 SLOT 6:31 99/1/13
8 LL 2:22 99/1/13
FIRST A TARO
SECOND A TARO
THIRD A TARO
BEST TARO & JIRO
341
348
342
349
345
346
347
343
344
352
351

FIG.36

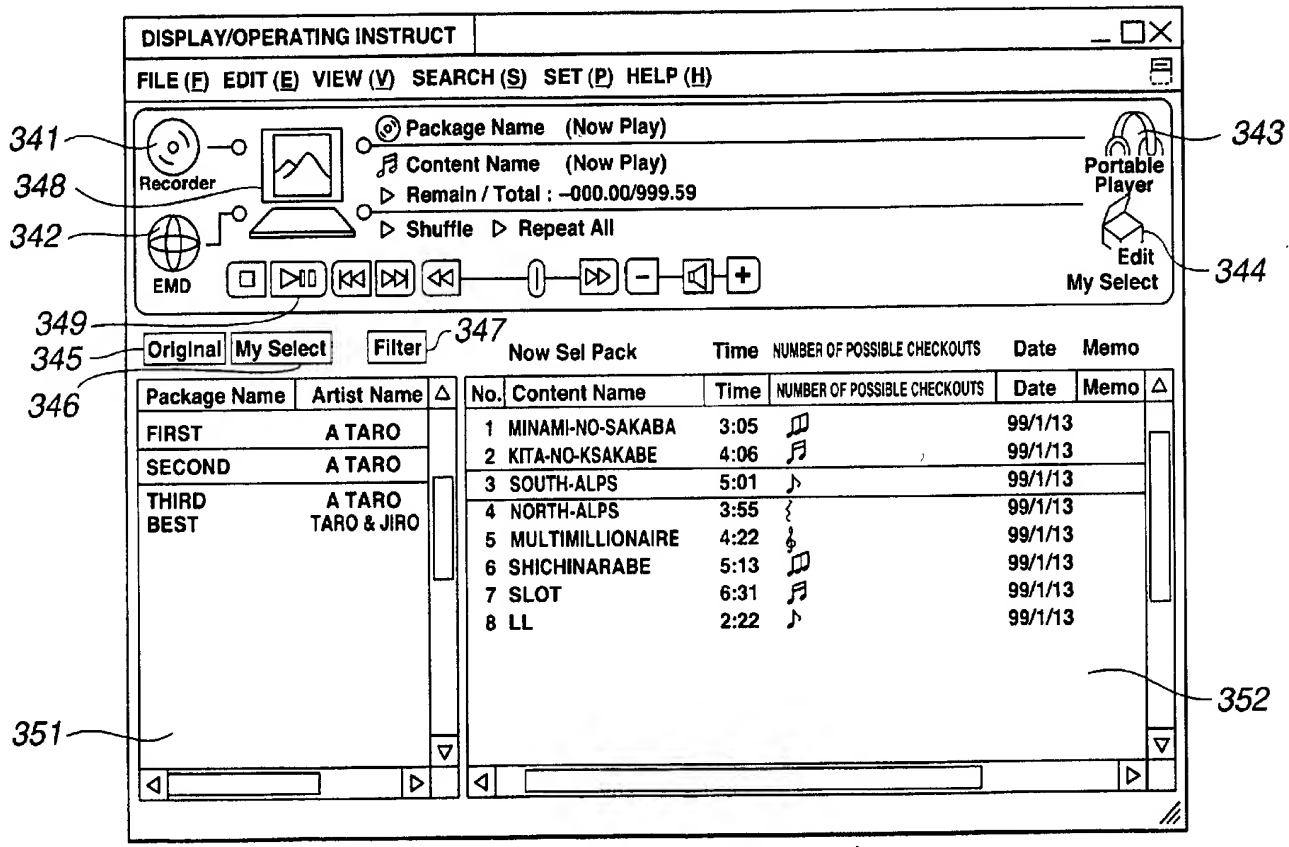

FIG.37

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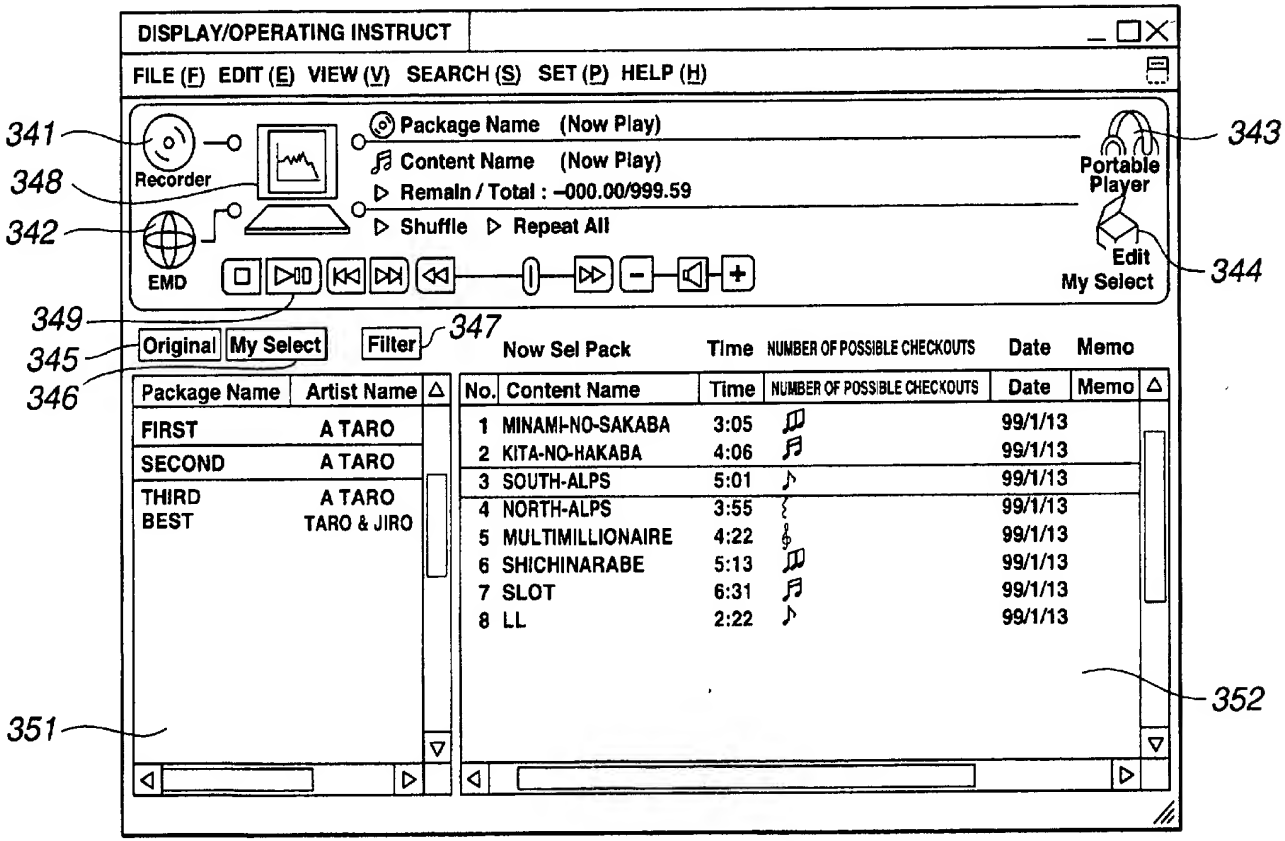
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
341
Recorder
348
342
EMD
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle Repeat All
343
Portable Player
344
Edit My Select
349
345
346
Original
My Select
Filter
347
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
FIRST A TARO
SECOND A TARO
THIRD A TARO
BEST TARO & JIRO
No.
Content Name
Time
1 MINAMI-NO-SAKABA 3:05 99/1/13
2 KITA-NO-HAKABA 4:06 99/1/13
3 SOUTH-ALPS 5:01 99/1/13
4 NORTH-ALPS 3:55 99/1/13
5 MULTIMILLIONAIRE 4:22 99/1/13
6 SHICHINARABE 5:13 99/1/13
7 SLOT 6:31 99/1/13
8 LL 2:22 99/1/13
351
352

FIG.38

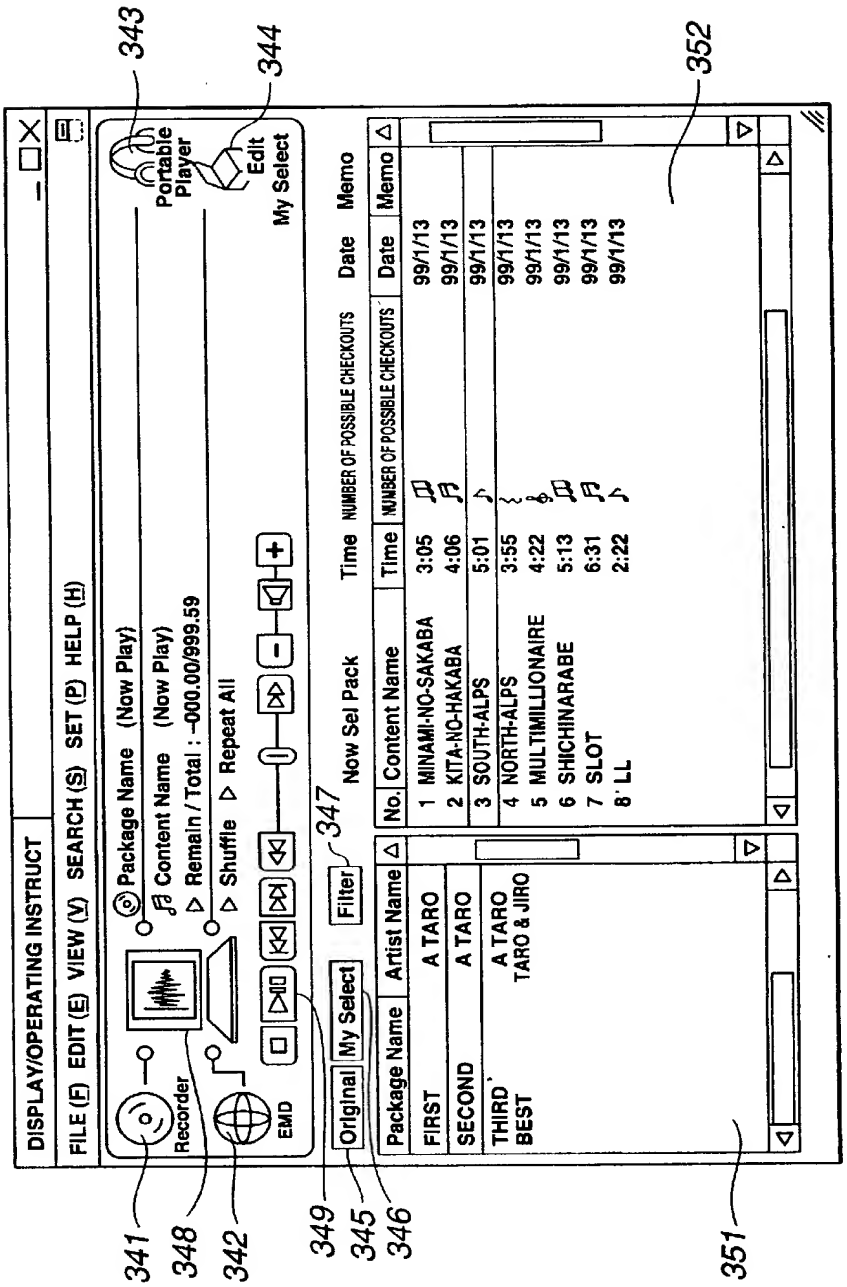
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle Repeat All
Recorder
EMD
Portable Player
Edit My Select
Original
My Select
Filter
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
FIRST A TARO
SECOND A TARO
THIRD A TARO
BEST TARO & JIRO
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
1 MINAMI-NO-SAKABA 3:05 99/1/13
2 KITA-NO-HAKABA 4:06 99/1/13
3 SOUTH-ALPS 5:01 99/1/13
4 NORTH-ALPS 3:55 99/1/13
5 MULTIMILLIONAIRE 4:22 99/1/13
6 SHICHINARABE 5:13 99/1/13
7 SLOT 6:31 99/1/13
8 LL 2:22 99/1/13
341
348
342
349
345
346
347
343
344
352
351

FIG.39

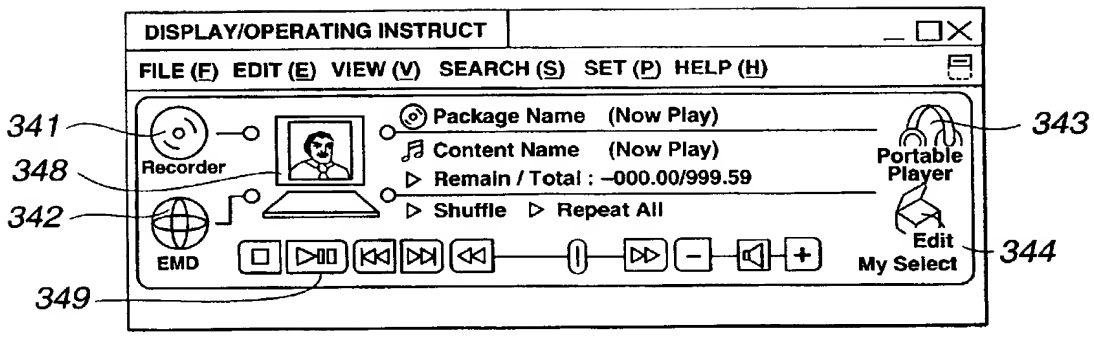

FIG.40

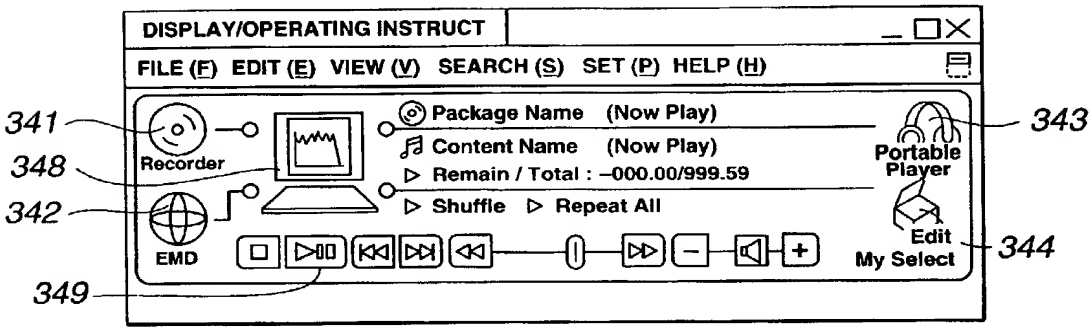

FIG.41

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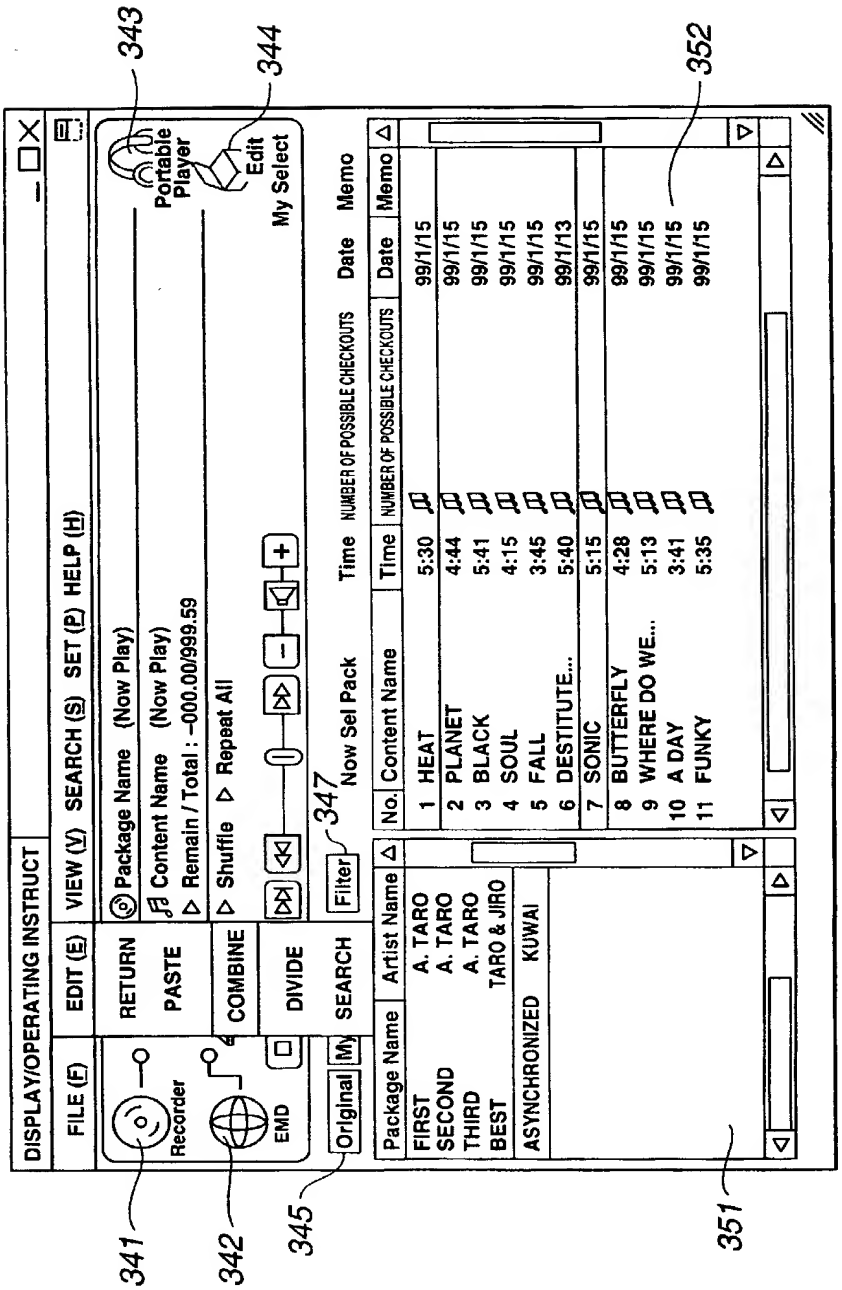
DISPLAY/OPERATING INSTRUCT
FILE (F)
EDIT (E)
VIEW (V) SEARCH (S) SET (P) HELP (H)
RETURN
PASTE
COMBINE
DIVIDE
SEARCH
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle Repeat All
Portable Player
Edit My Select
Recorder
EMD
Original
My
Filter
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
FIRST A. TARO
SECOND A. TARO
THIRD A. TARO
BEST TARO & JIRO
ASYNCHRONIZED KUWAI
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
1 HEAT 5:30 99/1/15
2 PLANET 4:44 99/1/15
3 BLACK 5:41 99/1/15
4 SOUL 4:15 99/1/15
5 FALL 3:45 99/1/15
6 DESTITUTE... 5:40 99/1/13
7 SONIC 5:15 99/1/15
8 BUTTERFLY 4:28 99/1/15
9 WHERE DO WE... 5:13 99/1/15
10 A DAY 3:41 99/1/15
11 FUNKY 5:35 99/1/15
341
342
343
344
345
347
351
352

FIG.42

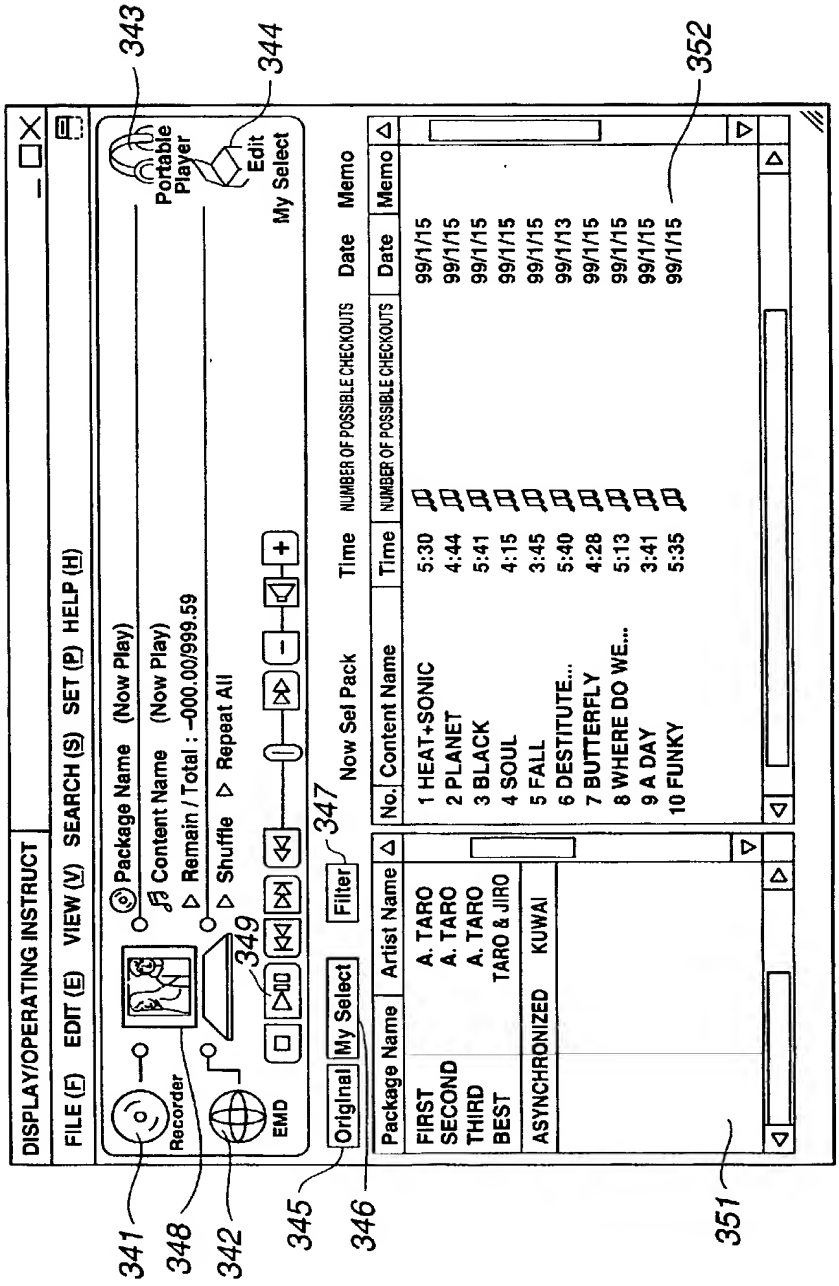
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle Repeat All
Recorder
EMD
Portable Player
Edit My Select
Original My Select
Filter
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
FIRST A. TARO
SECOND A. TARO
THIRD A. TARO
BEST TARO & JIRO
ASYNCHRONIZED KUWAI
1 HEAT+SONIC 5:30 99/1/15
2 PLANET 4:44 99/1/15
3 BLACK 5:41 99/1/15
4 SOUL 4:15 99/1/15
5 FALL 3:45 99/1/15
6 DESTITUTE... 5:40 99/1/13
7 BUTTERFLY 4:28 99/1/15
8 WHERE DO WE... 5:13 99/1/15
9 A DAY 3:41 99/1/15
10 FUNKY 5:35 99/1/15
341
348
342
345
346
347
349
343
344
352
351

FIG.43

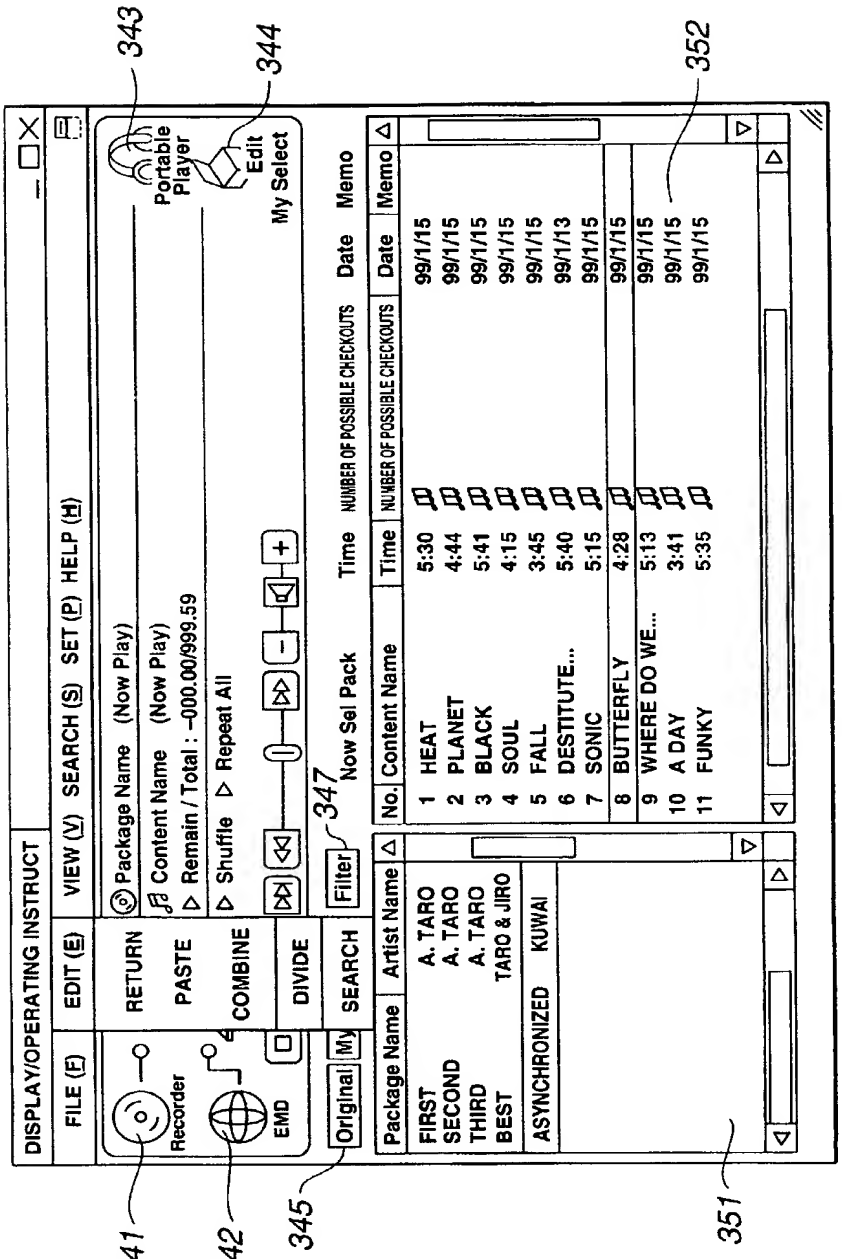
DISPLAY/OPERATING INSTRUCT
FILE (F)
EDIT (E)
VIEW (V) SEARCH (S) SET (P) HELP (H)
Recorder
EMD
RETURN
PASTE
COMBINE
DIVIDE
SEARCH
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle
Repeat All
Portable Player
Edit My Select
Original
My
Filter
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
FIRST A. TARO
SECOND A. TARO
THIRD A. TARO
BEST TARO & JIRO
ASYNCHRONIZED KUWAI
No.
Content Name
Time
Date
Memo
1 HEAT 5:30 99/1/15
2 PLANET 4:44 99/1/15
3 BLACK 5:41 99/1/15
4 SOUL 4:15 99/1/15
5 FALL 3:45 99/1/15
6 DESTITUTE... 5:40 99/1/13
7 SONIC 5:15 99/1/15
8 BUTTERFLY 4:28 99/1/15
9 WHERE DO WE... 5:13 99/1/15
10 A DAY 3:41 99/1/15
11 FUNKY 5:35 99/1/15
341
342
343
344
345
347
351
352

FIG.44

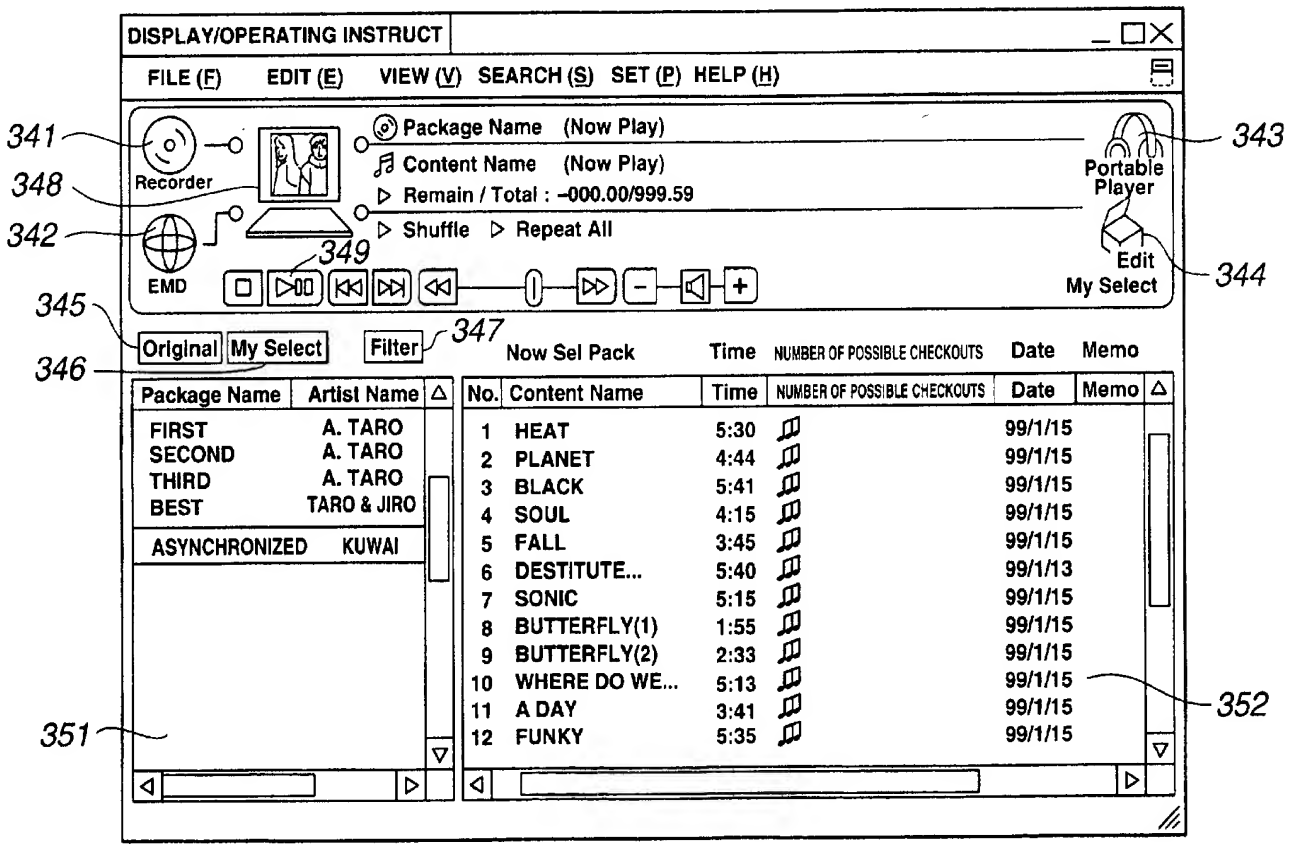
DISPLAY/OPERATING INSTRUCT
FILE (F) EDIT (E) VIEW (V) SEARCH (S) SET (P) HELP (H)
341
348
342
Recorder
EMD
Package Name (Now Play)
Content Name (Now Play)
Remain / Total : -000.00/999.59
Shuffle Repeat All
349
343
Portable Player
Edit My Select
344
345
346
Original
My Select
Filter
347
Now Sel Pack
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
Package Name
Artist Name
FIRST A. TARO
SECOND A. TARO
THIRD A. TARO
BEST TARO & JIRO
ASYNCHRONIZED KUWAI
351
No.
Content Name
Time
NUMBER OF POSSIBLE CHECKOUTS
Date
Memo
1 HEAT 5:30 99/1/15
2 PLANET 4:44 99/1/15
3 BLACK 5:41 99/1/15
4 SOUL 4:15 99/1/15
5 FALL 3:45 99/1/15
6 DESTITUTE... 5:40 99/1/13
7 SONIC 5:15 99/1/15
8 BUTTERFLY(1) 1:55 99/1/15
9 BUTTERFLY(2) 2:33 99/1/15
10 WHERE DO WE... 5:13 99/1/15
11 A DAY 3:41 99/1/15
12 FUNKY 5:35 99/1/15
352

FIG.45

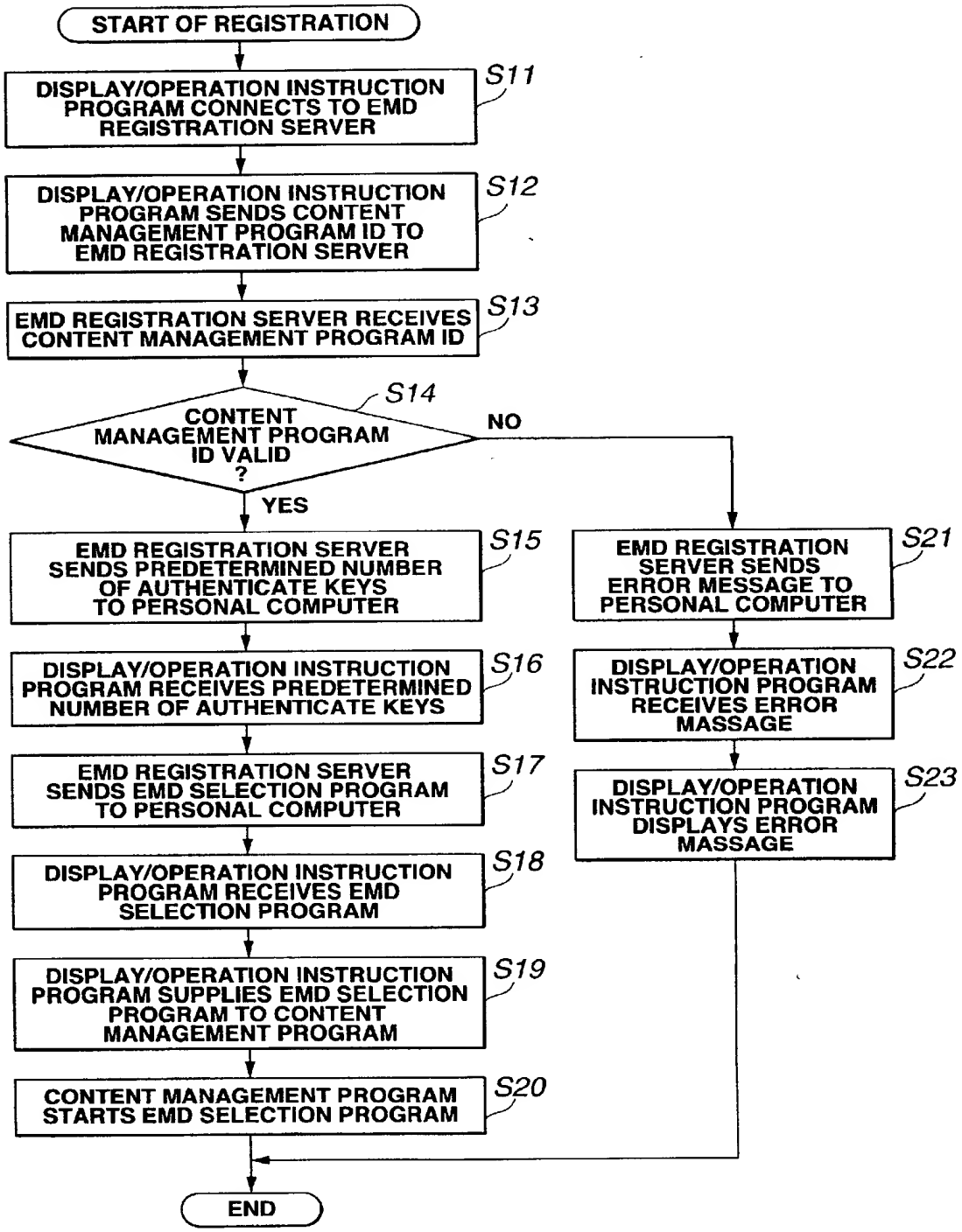
START OF REGISTRATION
DISPLAY/OPERATION INSTRUCTION PROGRAM CONNECTS TO EMD REGISTRATION SERVER
S11
DISPLAY/OPERATION INSTRUCTION PROGRAM SENDS CONTENT MANAGEMENT PROGRAM ID TO EMD REGISTRATION SERVER
S12
EMD REGISTRATION SERVER RECEIVES CONTENT MANAGEMENT PROGRAM ID
S13
CONTENT MANAGEMENT PROGRAM ID VALID ?
S14
NO
YES
EMD REGISTRATION SERVER SENDS PREDETERMINED NUMBER OF AUTHENTICATE KEYS TO PERSONAL COMPUTER
S15
DISPLAY/OPERATION INSTRUCTION PROGRAM RECEIVES PREDETERMINED NUMBER OF AUTHENTICATE KEYS
S16
EMD REGISTRATION SERVER SENDS EMD SELECTION PROGRAM TO PERSONAL COMPUTER
S17
DISPLAY/OPERATION INSTRUCTION PROGRAM RECEIVES EMD SELECTION PROGRAM
S18
DISPLAY/OPERATION INSTRUCTION PROGRAM SUPPLIES EMD SELECTION PROGRAM TO CONTENT MANAGEMENT PROGRAM
S19
CONTENT MANAGEMENT PROGRAM STARTS EMD SELECTION PROGRAM
S20
EMD REGISTRATION SERVER SENDS ERROR MESSAGE TO PERSONAL COMPUTER
S21
DISPLAY/OPERATION INSTRUCTION PROGRAM RECEIVES ERROR MASSAGE
S22
DISPLAY/OPERATION INSTRUCTION PROGRAM DISPLAYS ERROR MASSAGE
S23
END

FIG.46

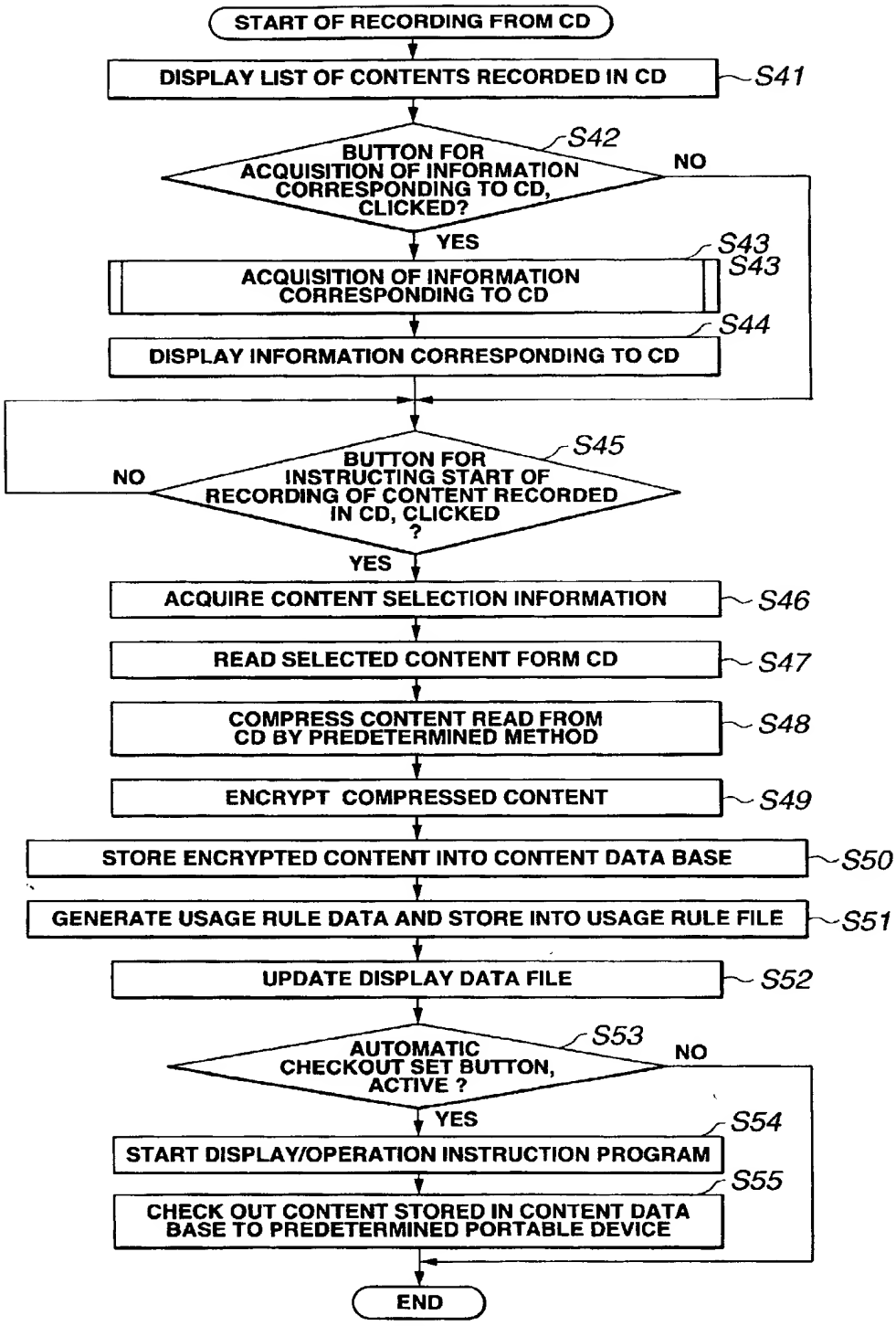
START OF RECORDING FROM CD
DISPLAY LIST OF CONTENTS RECORDED IN CD
S41
BUTTON FOR ACQUISITION OF INFORMATION CORRESPONDING TO CD, CLICKED?
S42
NO
YES
ACQUISITION OF INFORMATION CORRESPONDING TO CD
S43
DISPLAY INFORMATION CORRESPONDING TO CD
S44
BUTTON FOR INSTRUCTING START OF RECORDING OF CONTENT RECORDED IN CD, CLICKED ?
S45
NO
YES
ACQUIRE CONTENT SELECTION INFORMATION
S46
READ SELECTED CONTENT FORM CD
S47
COMPRESS CONTENT READ FROM CD BY PREDETERMINED METHOD
S48
ENCRYPT COMPRESSED CONTENT
S49
STORE ENCRYPTED CONTENT INTO CONTENT DATA BASE
S50
GENERATE USAGE RULE DATA AND STORE INTO USAGE RULE FILE
S51
UPDATE DISPLAY DATA FILE
S52
AUTOMATIC CHECKOUT SET BUTTON, ACTIVE ?
S53
NO
YES
START DISPLAY/OPERATION INSTRUCTION PROGRAM
S54
CHECK OUT CONTENT STORED IN CONTENT DATA BASE TO PREDETERMINED PORTABLE DEVICE
S55
END

FIG.47

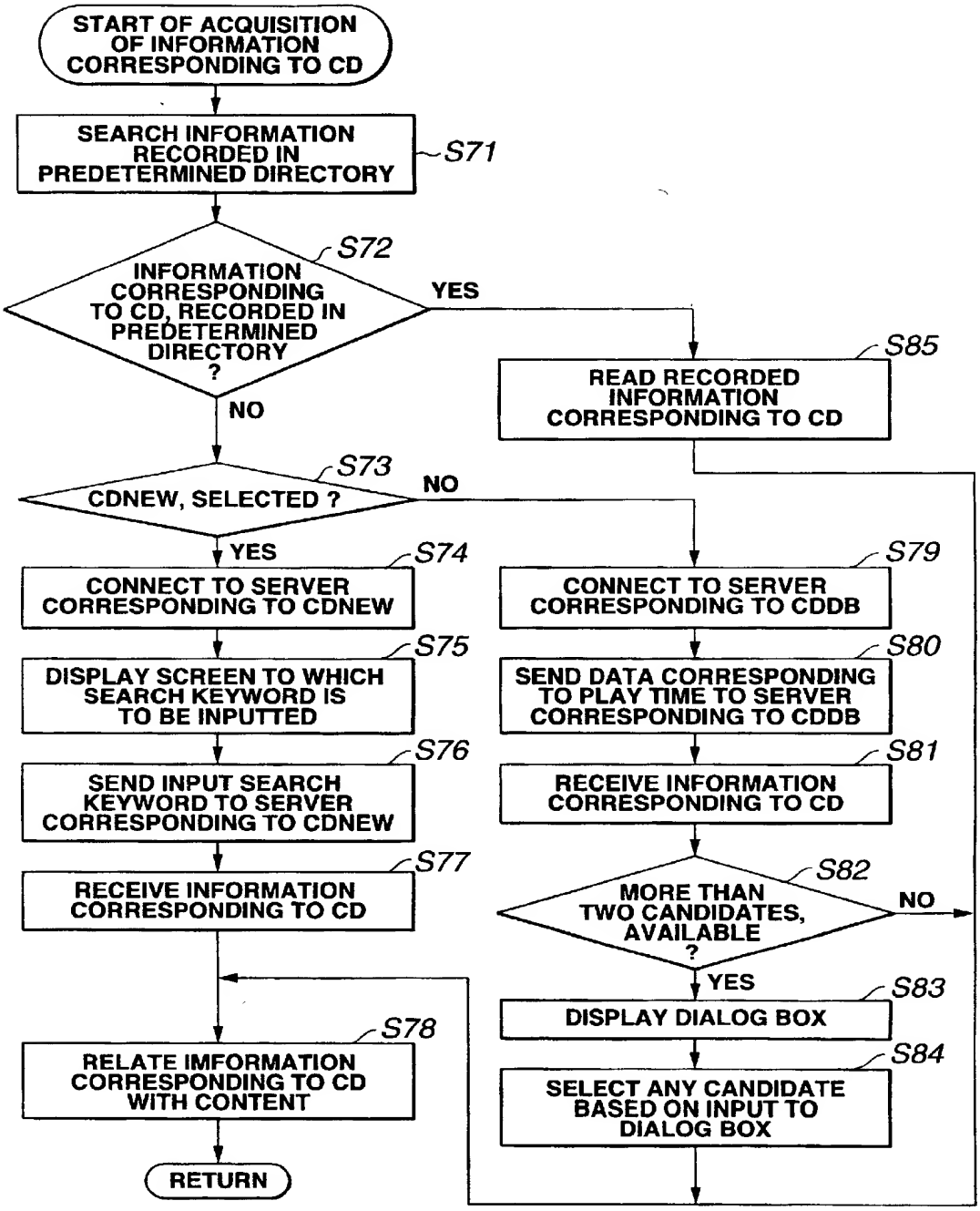
START OF ACQUISITION OF INFORMATION CORRESPONDING TO CD
SEARCH INFORMATION RECORDED IN PREDETERMINED DIRECTORY
S71
INFORMATION CORRESPONDING TO CD, RECORDED IN PREDETERMINED DIRECTORY ?
S72
YES
NO
READ RECORDED INFORMATION CORRESPONDING TO CD
S85
CDNEW, SELECTED ?
S73
NO
YES
CONNECT TO SERVER CORRESPONDING TO CDNEW
S74
DISPLAY SCREEN TO WHICH SEARCH KEYWORD IS TO BE INPUTTED
S75
SEND INPUT SEARCH KEYWORD TO SERVER CORRESPONDING TO CDNEW
S76
RECEIVE INFORMATION CORRESPONDING TO CD
S77
RELATE IMFORMATION CORRESPONDING TO CD WITH CONTENT
S78
RETURN
CONNECT TO SERVER CORRESPONDING TO CDDB
S79
SEND DATA CORRESPONDING TO PLAY TIME TO SERVER CORRESPONDING TO CDDB
S80
RECEIVE INFORMATION CORRESPONDING TO CD
S81
MORE THAN TWO CANDIDATES, AVAILABLE ?
S82
NO
YES
DISPLAY DIALOG BOX
S83
SELECT ANY CANDIDATE BASED ON INPUT TO DIALOG BOX
S84

FIG.48

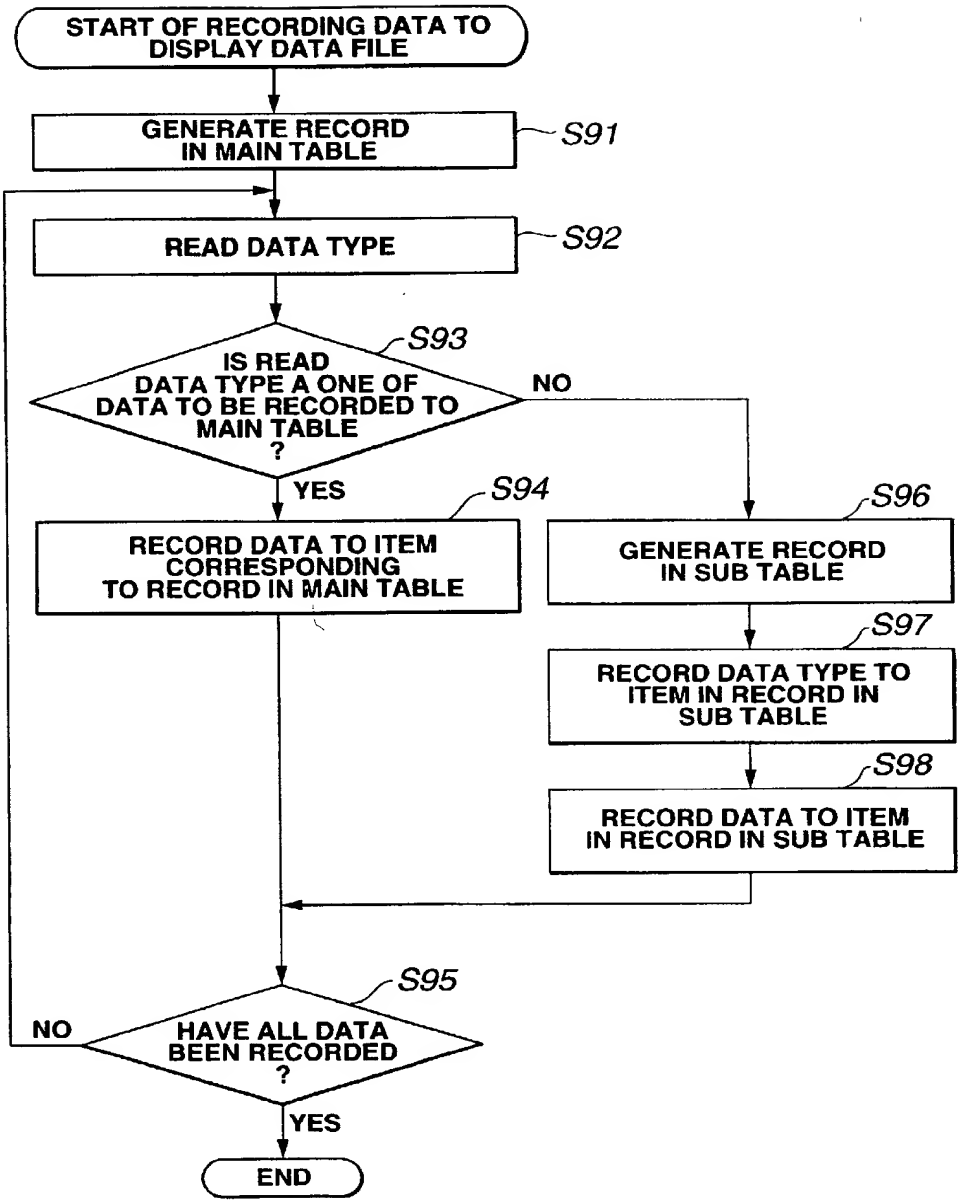
START OF RECORDING DATA TO DISPLAY DATA FILE
GENERATE RECORD IN MAIN TABLE
S91
READ DATA TYPE
S92
S93
IS READ DATA TYPE A ONE OF DATA TO BE RECORDED TO MAIN TABLE ?
NO
YES
S94
RECORD DATA TO ITEM CORRESPONDING TO RECORD IN MAIN TABLE
S96
GENERATE RECORD IN SUB TABLE
S97
RECORD DATA TYPE TO ITEM IN RECORD IN SUB TABLE
S98
RECORD DATA TO ITEM IN RECORD IN SUB TABLE
S95
NO
HAVE ALL DATA BEEN RECORDED ?
YES
END

FIG.49

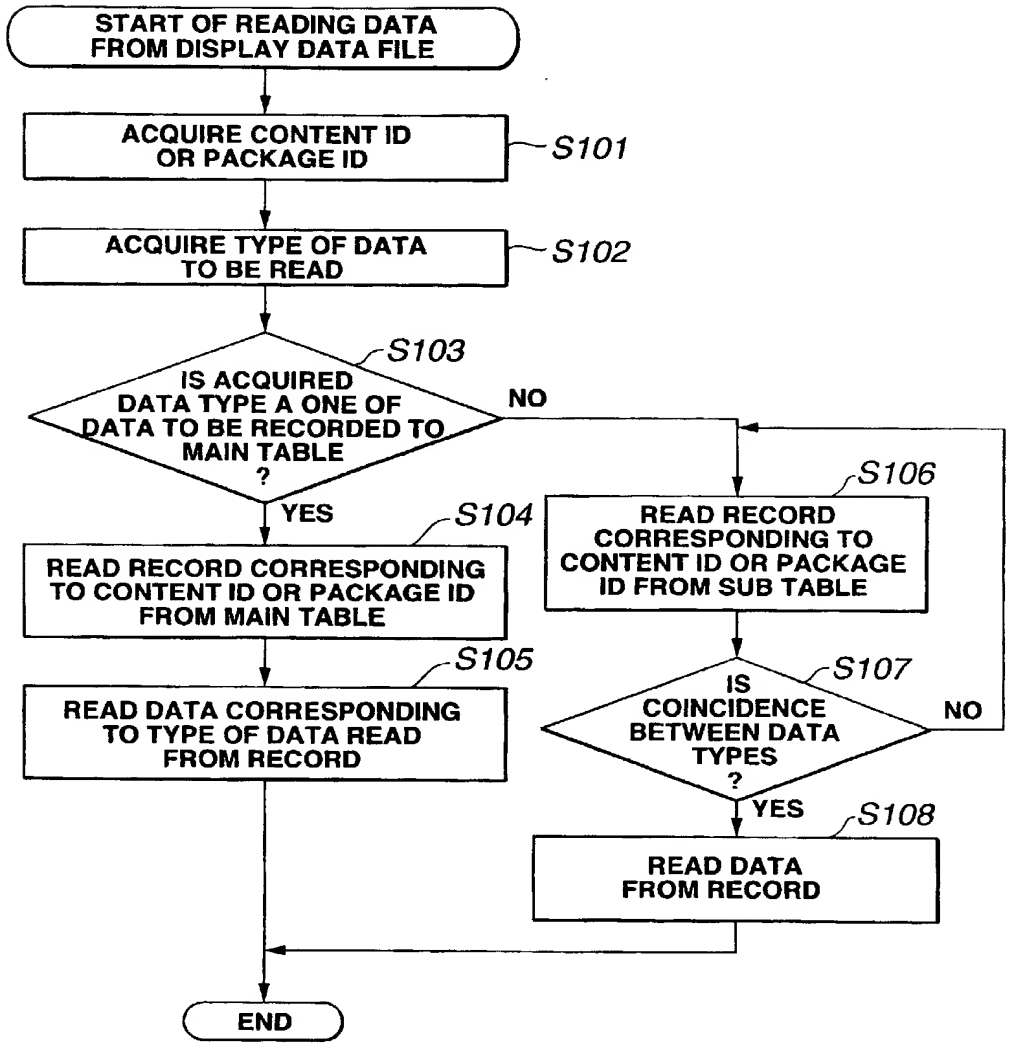
START OF READING DATA FROM DISPLAY DATA FILE
ACQUIRE CONTENT ID OR PACKAGE ID
S101
ACQUIRE TYPE OF DATA TO BE READ
S102
S103
IS ACQUIRED DATA TYPE A ONE OF DATA TO BE RECORDED TO MAIN TABLE ?
NO
YES
S104
READ RECORD CORRESPONDING TO CONTENT ID OR PACKAGE ID FROM MAIN TABLE
S105
READ DATA CORRESPONDING TO TYPE OF DATA READ FROM RECORD
S106
READ RECORD CORRESPONDING TO CONTENT ID OR PACKAGE ID FROM SUB TABLE
S107
IS COINCIDENCE BETWEEN DATA TYPES ?
NO
YES
S108
READ DATA FROM RECORD
END

FIG.50

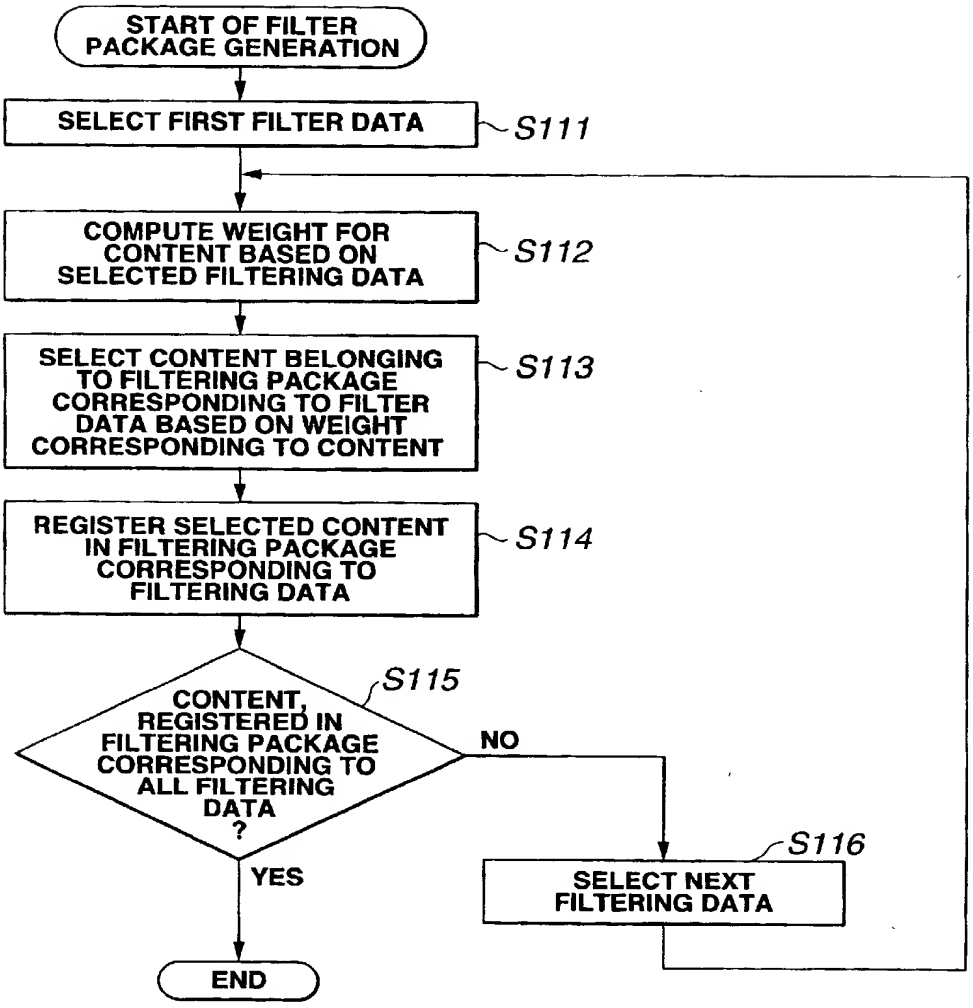
START OF FILTER PACKAGE GENERATION
SELECT FIRST FILTER DATA
S111
COMPUTE WEIGHT FOR CONTENT BASED ON SELECTED FILTERING DATA
S112
SELECT CONTENT BELONGING TO FILTERING PACKAGE CORRESPONDING TO FILTER DATA BASED ON WEIGHT CORRESPONDING TO CONTENT
S113
REGISTER SELECTED CONTENT IN FILTERING PACKAGE CORRESPONDING TO FILTERING DATA
S114
S115
CONTENT, REGISTERED IN FILTERING PACKAGE CORRESPONDING TO ALL FILTERING DATA ?
NO
YES
S116
SELECT NEXT FILTERING DATA
END

FIG.51

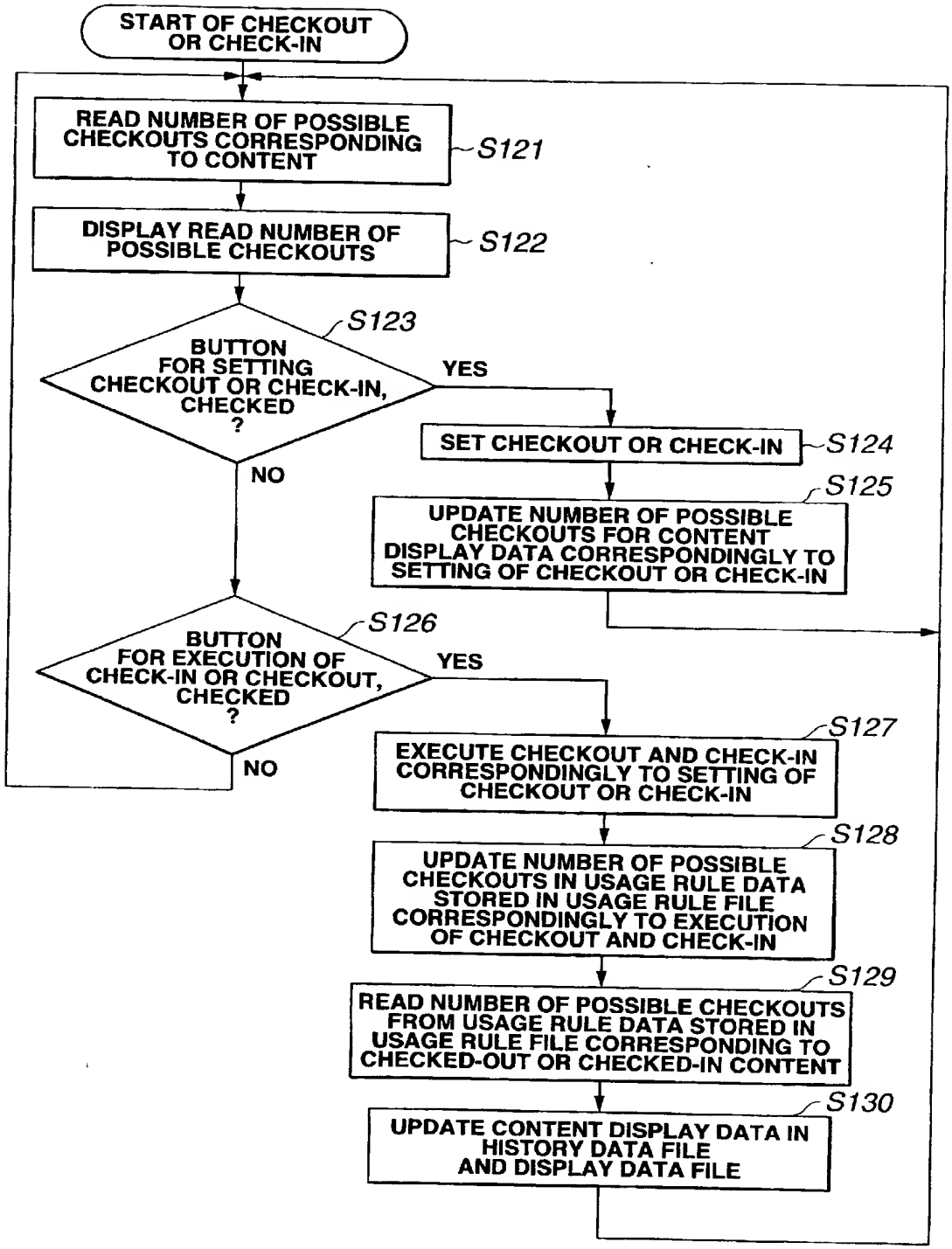
START OF CHECKOUT OR CHECK-IN
READ NUMBER OF POSSIBLE CHECKOUTS CORRESPONDING TO CONTENT
S121
DISPLAY READ NUMBER OF POSSIBLE CHECKOUTS
S122
S123
BUTTON FOR SETTING CHECKOUT OR CHECK-IN, CHECKED ?
YES
NO
SET CHECKOUT OR CHECK-IN
S124
S125
UPDATE NUMBER OF POSSIBLE CHECKOUTS FOR CONTENT DISPLAY DATA CORRESPONDINGLY TO SETTING OF CHECKOUT OR CHECK-IN
S126
BUTTON FOR EXECUTION OF CHECK-IN OR CHECKOUT, CHECKED ?
YES
NO
S127
EXECUTE CHECKOUT AND CHECK-IN CORRESPONDINGLY TO SETTING OF CHECKOUT OR CHECK-IN
S128
UPDATE NUMBER OF POSSIBLE CHECKOUTS IN USAGE RULE DATA STORED IN USAGE RULE FILE CORRESPONDINGLY TO EXECUTION OF CHECKOUT AND CHECK-IN
S129
READ NUMBER OF POSSIBLE CHECKOUTS FROM USAGE RULE DATA STORED IN USAGE RULE FILE CORRESPONDING TO CHECKED-OUT OR CHECKED-IN CONTENT
S130
UPDATE CONTENT DISPLAY DATA IN HISTORY DATA FILE AND DISPLAY DATA FILE

FIG.52

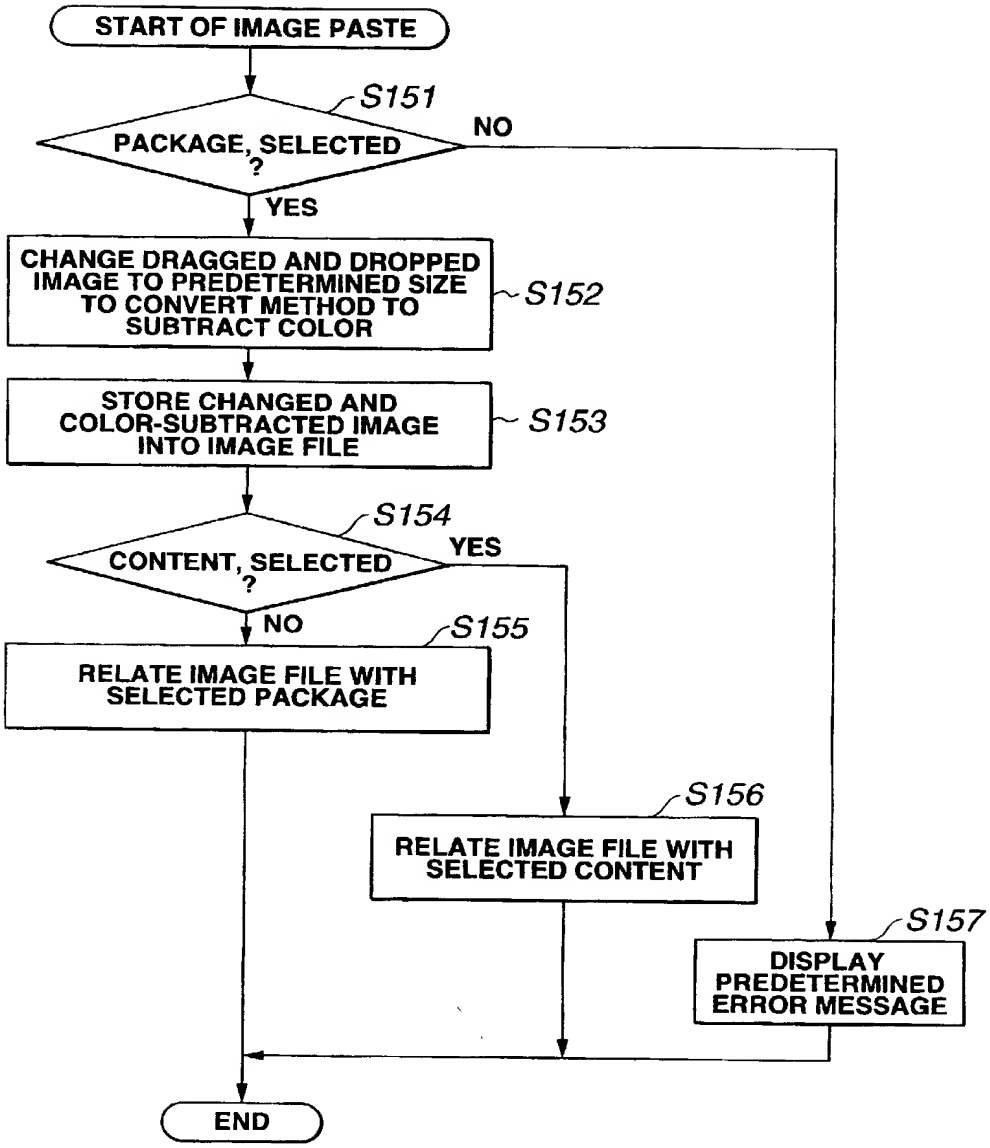
START OF IMAGE PASTE
S151
PACKAGE, SELECTED ?
NO
YES
CHANGE DRAGGED AND DROPPED IMAGE TO PREDETERMINED SIZE TO CONVERT METHOD TO SUBTRACT COLOR
S152
STORE CHANGED AND COLOR-SUBTRACTED IMAGE INTO IMAGE FILE
S153
S154
CONTENT, SELECTED ?
YES
NO
S155
RELATE IMAGE FILE WITH SELECTED PACKAGE
S156
RELATE IMAGE FILE WITH SELECTED CONTENT
S157
DISPLAY PREDETERMINED ERROR MESSAGE
END

FIG.53

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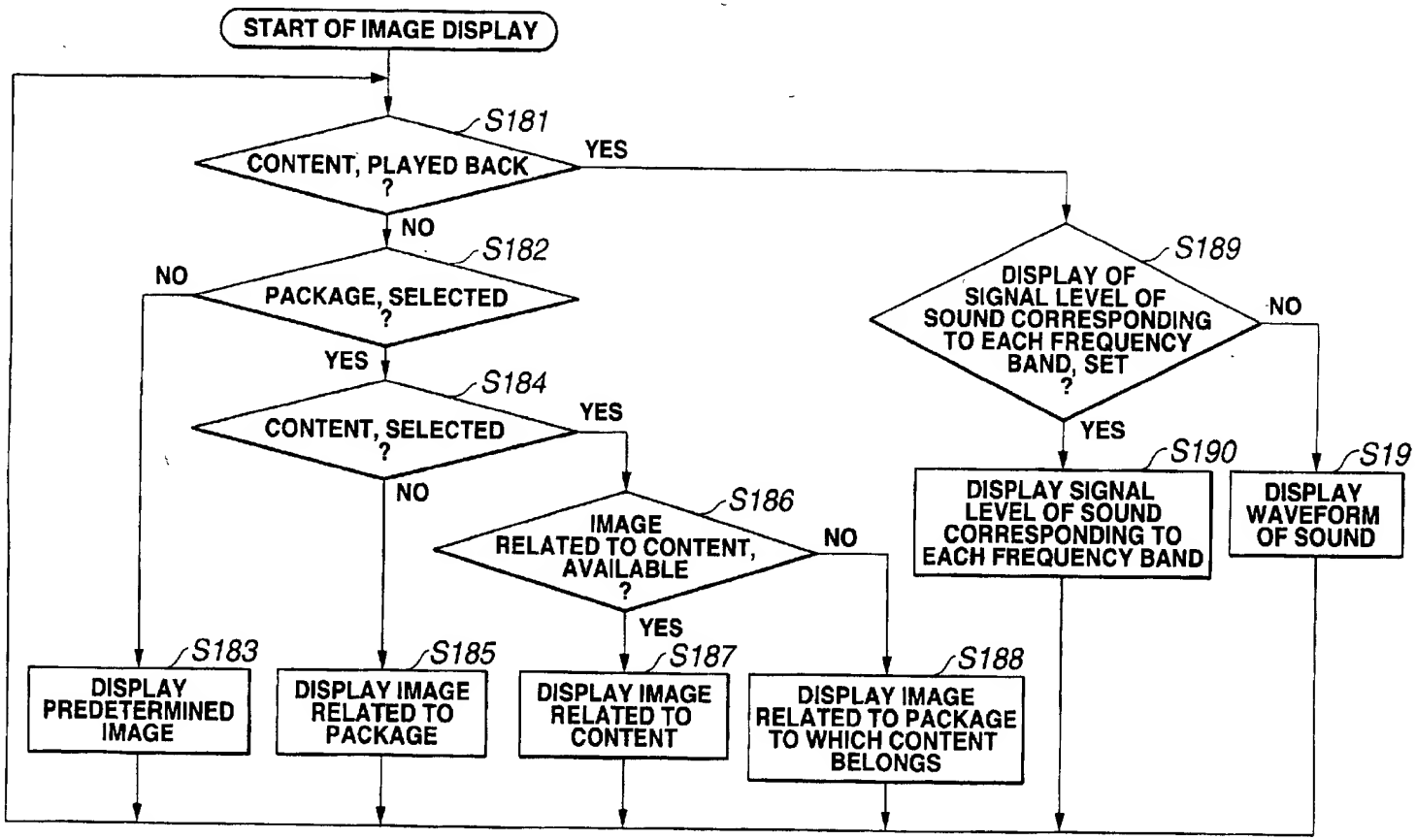

FIG.54

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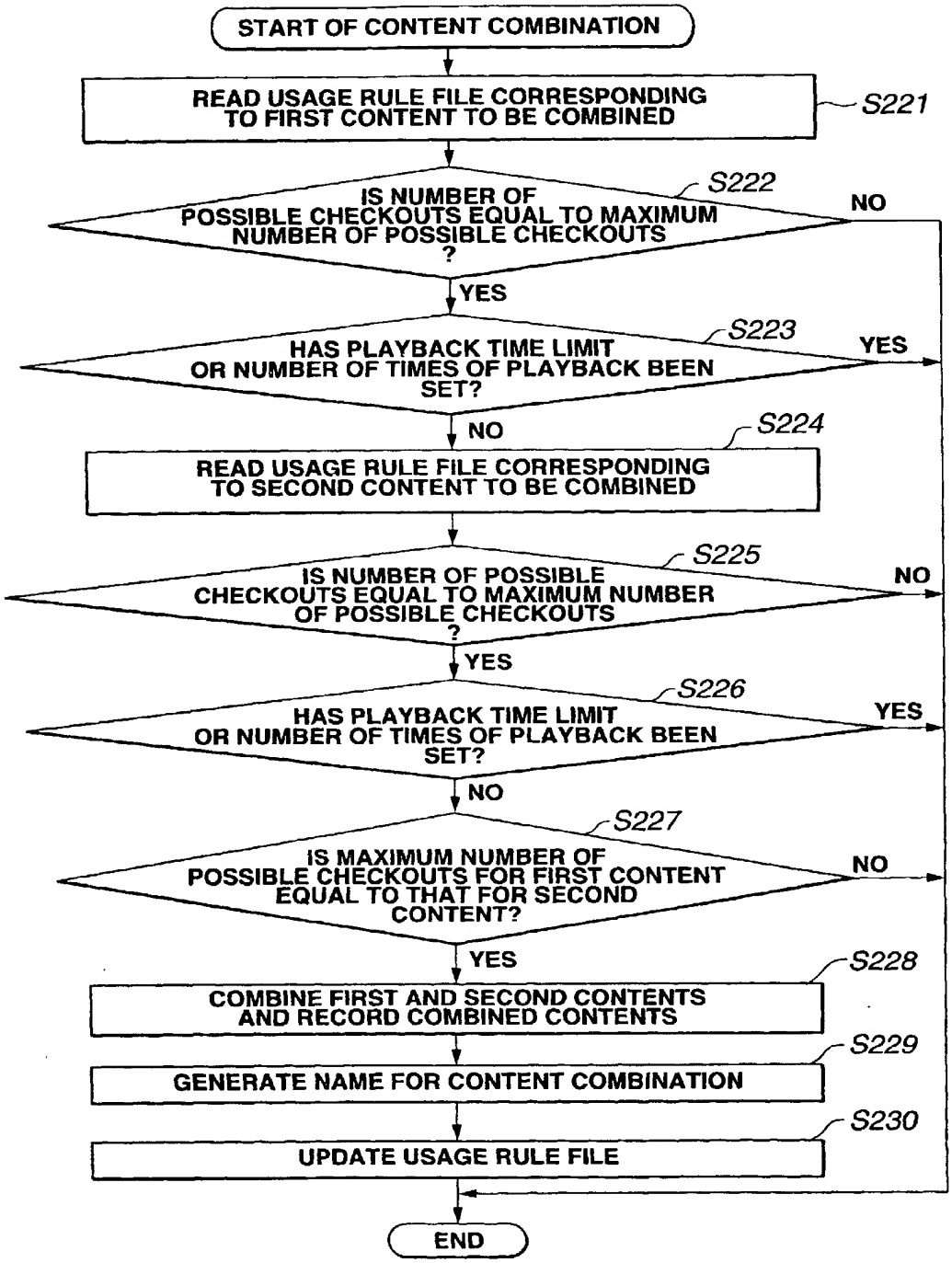
START OF CONTENT COMBINATION
READ USAGE RULE FILE CORRESPONDING TO FIRST CONTENT TO BE COMBINED
S221
IS NUMBER OF POSSIBLE CHECKOUTS EQUAL TO MAXIMUM NUMBER OF POSSIBLE CHECKOUTS ?
S222
NO
YES
HAS PLAYBACK TIME LIMIT OR NUMBER OF TIMES OF PLAYBACK BEEN SET?
S223
YES
NO
READ USAGE RULE FILE CORRESPONDING TO SECOND CONTENT TO BE COMBINED
S224
IS NUMBER OF POSSIBLE CHECKOUTS EQUAL TO MAXIMUM NUMBER OF POSSIBLE CHECKOUTS ?
S225
NO
YES
HAS PLAYBACK TIME LIMIT OR NUMBER OF TIMES OF PLAYBACK BEEN SET?
S226
YES
NO
IS MAXIMUM NUMBER OF POSSIBLE CHECKOUTS FOR FIRST CONTENT EQUAL TO THAT FOR SECOND CONTENT?
S227
NO
YES
COMBINE FIRST AND SECOND CONTENTS AND RECORD COMBINED CONTENTS
S228
GENERATE NAME FOR CONTENT COMBINATION
S229
UPDATE USAGE RULE FILE
S230
END

FIG.55

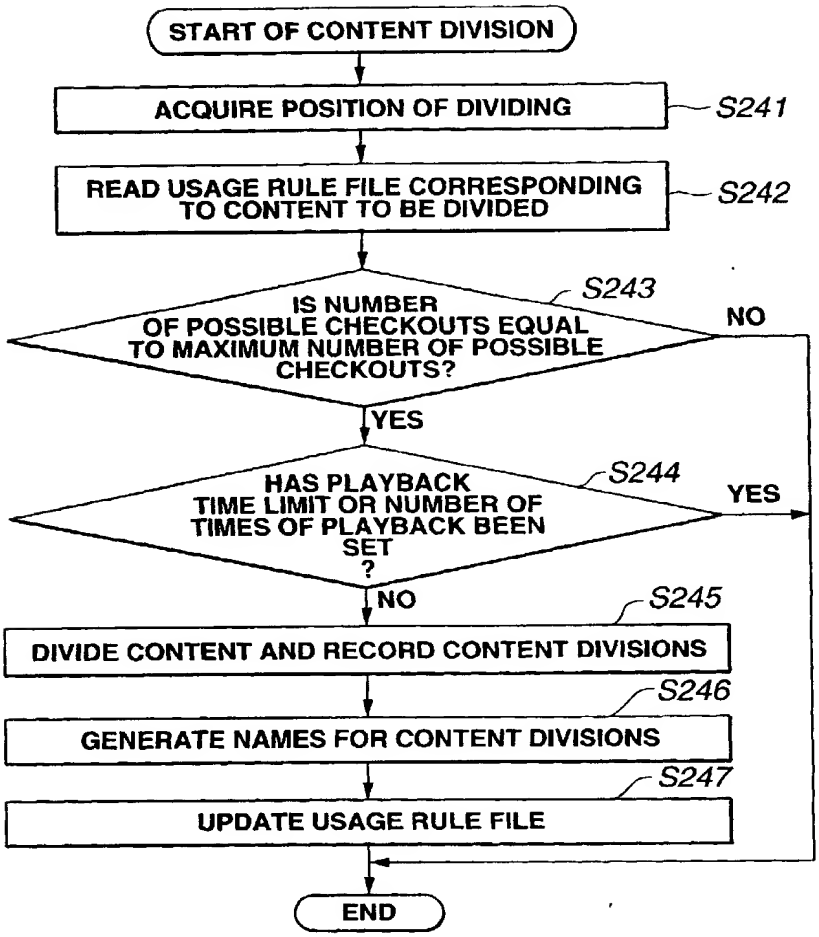
START OF CONTENT DIVISION
ACQUIRE POSITION OF DIVIDING
S241
READ USAGE RULE FILE CORRESPONDING TO CONTENT TO BE DIVIDED
S242
IS NUMBER OF POSSIBLE CHECKOUTS EQUAL TO MAXIMUM NUMBER OF POSSIBLE CHECKOUTS?
S243
NO
YES
HAS PLAYBACK TIME LIMIT OR NUMBER OF TIMES OF PLAYBACK BEEN SET ?
S244
YES
NO
DIVIDE CONTENT AND RECORD CONTENT DIVISIONS
S245
GENERATE NAMES FOR CONTENT DIVISIONS
S246
UPDATE USAGE RULE FILE
S247
END

FIG.56

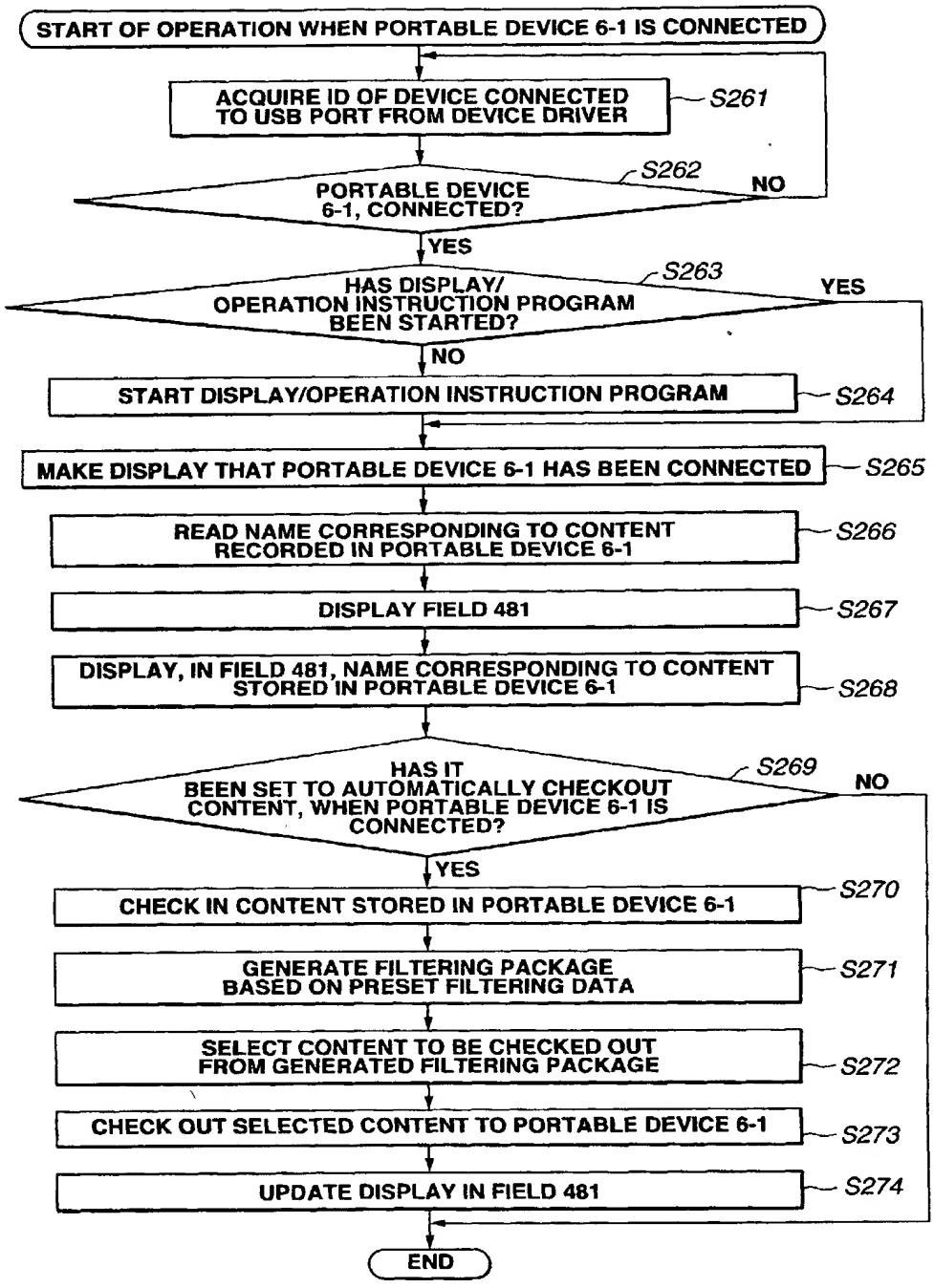
START OF OPERATION WHEN PORTABLE DEVICE 6-1 IS CONNECTED
ACQUIRE ID OF DEVICE CONNECTED TO USB PORT FROM DEVICE DRIVER
S261
PORTABLE DEVICE 6-1, CONNECTED?
S262
NO
YES
HAS DISPLAY/ OPERATION INSTRUCTION PROGRAM BEEN STARTED?
S263
YES
NO
START DISPLAY/OPERATION INSTRUCTION PROGRAM
S264
MAKE DISPLAY THAT PORTABLE DEVICE 6-1 HAS BEEN CONNECTED
S265
READ NAME CORRESPONDING TO CONTENT RECORDED IN PORTABLE DEVICE 6-1
S266
DISPLAY FIELD 481
S267
DISPLAY, IN FIELD 481, NAME CORRESPONDING TO CONTENT STORED IN PORTABLE DEVICE 6-1
S268
HAS IT BEEN SET TO AUTOMATICALLY CHECKOUT CONTENT, WHEN PORTABLE DEVICE 6-1 IS CONNECTED?
S269
NO
YES
CHECK IN CONTENT STORED IN PORTABLE DEVICE 6-1
S270
GENERATE FILTERING PACKAGE BASED ON PRESET FILTERING DATA
S271
SELECT CONTENT TO BE CHECKED OUT FROM GENERATED FILTERING PACKAGE
S272
CHECK OUT SELECTED CONTENT TO PORTABLE DEVICE 6-1
S273
UPDATE DISPLAY IN FIELD 481
S274
END

FIG.57